

UDC 546.185

KOLODYAZHYY, O. I., KALYAGIN, G. A., and GOLOLOBOV, Yu. G., Institute of Organic Chemistry, Acad. Sc. Ukrainian SSR

"Reaction of Chlorophosphates With Metallic Derivatives of Malonic Esters"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 8, Aug 73, pp 1859-1860

Abstract: Diethyl chlorophosphate reacts with sodium, potassium, or lithium derivatives malonic ester via 0-phosphorylation, yielding diethyl (carbo-ethoxypropenyl) phosphate, b.p. 120-122°/0.05 mm, n²⁰ 1.4472, d²⁰ 1.1650.

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USSR

UDC: 8.74

BADENKO, L. A., IVANOVA, L. V., KALININ, O. M., KACHURIN, A. L., KOLO-DYAZHNYY, S. F.

"Analysis of the Motion of Aggregates of Cells in a Fresh-Water Sponge"

V sb. Probl. kibernetiki (Problems of Cybernetics--collection of works), vyp. 25, Moscow, "Hauka", 1972, pp 119-127 (from RZh-Kibernetika, No 6, Jun 72, Abstract No 6V599)

Translation: An attempt is made to find estimates of the principal parameters of cell motions on the basis of mathematical processing of individual trajectories of finite aggregates in a fresh-water sponge. Authors' abstract.

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USSR

UDC 547.785.5.556.3

KOLODYAZHNAYA, S. N., SIMONOV, A. M., ZHELTIKOVA, N. N., and POZHARSKIY, A. F., Rostov State University, Rostov-on-Don

"Intramolecular Nitrogen Bonding in a Series of 1-Substituted 2-Aminobenzimidazols"

Riga, Khimiya Geterotsiklicheskikh Soyedineniy, 5, May 1973, pp 714-715

Abstract: Compounds of the type 1-aryl-2-aminobenzimidazol (I) form, in addition to the intermolecular bonds, intramolecular nitrogen bonding which occurs in the o-position of N-aryl radical and leads to the formation of dibenz [a,g] imidazo [2,1-C][1,2,4,] triazines (II-V as follows:

ONINH, - ONINH

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The ring closure occurs smoothly in concentrated $\rm H_3PO_{l_1}$; the presence of $\rm H_2SO_{l_1}$ results in the formation of 5- and 6-azobenzimidazols. A methyl group in the m-position on the N-aryl radical facilitates the ring closure. Elemental analysis, IR data, physical constants, and molecular weights are given. 1/1

UNCLASSIFIED PROCESSING DATE--090CT70 -1/3 019 TITLE-NITROGEN CONTAINING BISHETEROCYCLIC SYSTEMS. II. NATURE OF THE INFLUENCE OF THE 2, BENZIMIDAZOLYL RADICAL -U-AUTHOR-(Q5)-KOLODYAZHNAYA, S.N., SIMONOV, A.M., KOLODYAZHNYY, YU.V., OSIPOV, Q.A., BREN, V.A.

COUNTRY OF INFO-USSR

SOURCE-KHIM. GETEROTSIKL. SOEDIN. 1970, (2), 238-44

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS-IR SPECTRUM, UV SPECTRUM, HETEROCYCLIC NITROGEN COMPOUND, BENZIMIDAZOLE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-1983/1169

STEP NO--UR/0409/70/000/002/0238/0244

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CIRC ACCESSION NO--AP0054070

UNCLASSIFIED

PROCESSING DATE--090CT70 UNCLASSIFIED 2/3 019 CIRC ACCESSION NO--AP0054070 ABSTRACT. THE QUATERNARY SALTS ESP. OF ABSTRACT/EXTRACT--(U) GP-0-1.ARYL. 3. (BENZIMIDAZUL. 2.YL) BENZIMIDAZOLIUM UNDERGO RING OPENING REACTIONS WITH WEAK BASES (SUCH AS NH SUB3 IN PYRIDINE) AT ROOM TEMP. THE SALTS WITH A FREE NH GROUP (I.E., WITHOUT THE 1, ARYL SUBSTITUENT) REACT SIMILARLY. NO YLIDE FORMATION WAS FOUND. PRODUCTS DEFORMYLATED BY HEATING. THE UV AND IR SPECTRA OF VARIOUS STARTING COMPOS., PRODUCTS, AND INTERMEDIATES WERE RECORDED. A CH SUB2 GROUP BETHEEN THE THO IMIDAZOLE RINGS INCREASES STABILITY. THE RINGS ARE THEN OPENED ONLY IN THE PRESENCE OF STRONG BASES AT ROOM TEMP.; THE PRODUCTS ARE RECYCLIZED IN ACID MEDIUM. THE PROTONIZATION CONSTS. OF PK SUBA 1 AND PK SUBA2 OF MODEL COMPDS. WERE MEASURED IN MECN. THE FOLLOWING VALUES (7-7.5 HIGHER THAN THOSE MEASURED IN WATER) WERE OBTAINED FUR N; (, I, METHYLDENZIMIDAZUL, Z, YL, SUBSTITUTED COMPOS. (COMP., PK SUBAL, PK SUBA2, AND M.P. GIVEN): IMIDAZOLE, 11.46, 5.34,-; BENZIMIDAZOLE, 9.91, 5.01,-; PYRAZOLE, 9.59, -,91-2DEGREES; INDAZOLE, 8.80, -, 171-2DEGREES; FOR N. (L, METHYLBENZIMIDAZOL, Z, YL, METHYLENE SUBSTITUTED COMPOS .: IMIDAZOLE, 13.73, 9.25, 150DEGREES; BENZIMIDAZOLE, 12.58, 9.21, 165-6DEGREES; PYRAZOLE, 12.27, 4.29, 109.5-10.0DEGREES; INDAZGLE. 12.03, 4.72, 167-8DEGREES; FOR SUBSTITUTED BENZIMIDAZOLES: THE QUATERNARY SALTS HERE PREPD. BY N.ET. 13.22,-,-; N.PR, 13.22,-,-. MELTING AT 140-50 DEGREES EQUINOLAR AMTS. OF N.ALKYLBENZIMIDAZOLE WITH 2. CHLORO OR 2. (CHLOROMETHYL) BENZIMIDAZOLE.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

UNCLASSIFIED PROCESSING DATE--090CT70

CIRC ACCESSION NO--AP0054070

ABSTRACT/EXTRACI--THUS, THE FOLLOWING DERIVS. OF

N,(BENZIMIDAZOL,2,YL),Q,PHENYLENEDIAMINE WERE PREPD. (M.P. GIVEN):

N,ME,N,FORMYL, 207-BOEGREES; N,ME, 220-7DEGREES; N,PH, 26B-9DEGREES;

SIMILARLY, N,PH AND N,ET,N PRIME,(1,METHYLBENZIMIDAZOL,
2,YL,Q,PHENYLENEDIAMINES, M. 183-4DEGREES AND 22Z-3DEGREES, RESP., WERE

OBTAINED. N,METHYL,N,FORMYL,N PRIME,(1,METHYLBENZIMIDAZOL,2,YL,

METHYLENE),O,PEHNYLENEDIAMINE, M. 164-5DEGREES WAS PREPD.

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UDC: 539.3:534.1

USSR

KOLODYAZHNYY, A.P., KRASOVSKIY, V.L. and KUCHERENKO, V.M.

"Tests of Reinforced Cylindrical Shells for Stability Under Bending"

Dnepropetrovsk, Sb. Resheniye Nekotor, Fiz.-Tekhn. Zadach (Symposium on Solution of Certain Physical-Technical Problems), 1972, pp 49-52 (from Referativnyy Zhurnal-Mekhanika, 1973, Abstract No 2V294 by V.V. Kabanov)

Translation: A device is described for testing shells under pure bending on a universal compression machine, inspection test results are given for nonreinforced shells fabricated by spot welding out of KH18N9N steel plate. These test results agree with known data. Brief information is also included on strain gage tests of a shell reinforced by stiffeners. It is pointed out that at the instant of total loss of stability the amplitude of compression stress is 1.3 time the amplitude of tension stress.

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USSR

UDC: 620.178.7

KOLODYAZHNYY, A. V., SMELYANSKIY, V. A., Khar'kov

"Experimental Study of the Stress State of an Elastic Beam under Transverse

Kiev, Problemy Prochnosti, No 7, Jul 73, pp 116-118.

Abstract: Results are presented from experimental study of stresses and displacements in an elastic prismatic beam under transverse impact by a solid body. A method of experimental study of the stress state and the influence of wave processes on the parameters of the stress-strain state of the elastic system under transverse impact are presented.

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UDC 546.185

KOLODYAZHNYY, O. I., SAMARAY, L. I., and GAYDANAKA, S. N., Institute of USSR Organic Chemistry, Academy of Sciences Ukrainian SSR

"Anionotropic Conversion of bis(Trichloromethyl)chlorophosphasocarbonyl

Leningrad, Zhurnal Obshchey Khimii, Vol 41, No 8, Aug 71, p 1872

Abstract: bis(Trichlcromethyl)chlorophosphazohydride reacts with oxalyl chloride to give bis(trichloromethyl) chlorophosphazooxalyl chloride. The latter decomposes on heating to 120 to give carbon monixide and a mixture of isomers -- bis(trichloromethyl)dichloroisocyanatophosphorus and bis(trichlormethyl)chlorophosphazocarbonyl chloride, UV spectra indicate mobile equilibrium of the isomers in the mixture, which is characteristic of tautomeric systems.

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- 116 -

CIA-RDP86-00513R001401420004-5" APPROVED FOR RELEASE: 09/17/2001

USSR

UDC 632.95

PROTOPOPOVA, G. V., RAYDALOVA, L. I., KOLODYAZHNYY, O. I., SAMARAY, L. I., and DERKACH, G. I., Institute of Organic Chemistry, Academy of Sciences of the UkrSSR

"A Pesticide"

USSR Author's Certificate No 253483, filed 25 Nov 68, published 8 Apr 70 (from RZh-Khimiya, No 3, 10 Feb 71, Abstract No 3N553 P)

Translation: N-(0-alkyl-S-alkylthiophosphono)-S-ethylurethanes have LD₅₀ 170 mg/kg for warm-blooded animals and have systemic and contact insecticidal and acaricidal action. Most toxic for houseflies is (CH₃0)(CH₃S)-(P(0)NHCOSC₂H₅ (I); 0.01 mg per fly, this compound was 92% fatal (the corresponding figure for chlorophos is 53%); for weevils of the rice and cereal type, most toxic is (CH₃0)(C₂H₅S)P(0)NHCOSC₂H₅ which was 100% fatal at 0.25 mg/dm² and 100% lethal for aphids at 0.005 mg/dm². Compound I is most effective for systemic action on aphids. In field experiments on controlling beet weevils, compound I in a dose of 1 kg/ha was nearly as effective as heptachlor at 2 kg/ha, and is at least as persistent in its effect. Compound I at 0.5 kg/ha was nearly as effective against beet aphids as rogor at 0.3 kg/ha.

- 46 -

USSR

UDC: 547.261118

SAMARAY, L.I., KOLODYAZHNYY, O.I., VISHNEVSKIY, O.V., and LERKACH, G.I. (Deceased) Institute of Organic Chemistry, Kiev, Academy of Sciences Ukrainian SSR

"Isocyanates of Phosphoric and Thiophosphoric Acids. III"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 4, Apr 70, pp 750-754

Abstract: Isocyanates of phosphoric acids react with hydrazoic acid to give N-azidocarbonylphosphamides. The latter readily enter into oxidative imination reactions with phosphines and phosphites to give corresponding phosphazo compounds. Isocyanates of phosphoric acid esters interact with \(\int \)-caprolactam on heating in a benzene solution to give N-phosphonocarbamoyl-\(\int \)-caprolactams. Isocyanates of dialkylthio- and dialkylphosphoric acid react with alcohols (mercaptams) to give N-phosphorylated urethanes and thiolurethanes possessing high insecticidal activity, both systemic and contact. N. I. LIPTUGA took part in the work.

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USSR

UDC: 547.26'118

SAMARAY, L.I., KOLODYAZHNYY, O.I., and DERKACH, G.I., (Deceased), Institute of Organic Chemistry, Kiev, Academy of Sciences Ukrainian SSR

"Reaction of Amides of Pentavalent Phosphorus Acids With Phosgene"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 4, Apr 70, pp 754-758

Abstract: The interaction of amides of dialkylphosphoric and dialkylthiophosphoric acids with phosgene gives a mixture of products, viz. isocyanates of the corresponding acids and adducts of the amides with hydrogen chloride. The direction of the reaction of phosgene with amides of pentavalent phosphorus acids is discussed. Two possible reaction schemes are suggested, with the likelier scheme being one in which the initial event is the formation of an Oracyl derivative of the amidophosphate. This is confirmed by the results of a study of the interaction of phosgene with dialkyl esters of Namonoalkylamidophosphoric acid, which show that acid chlorides of alkyl esters of Nalkylamidophosphoric acid are mainly formed. An exception is diethyl ester of Namethylamidophosphoric acid, which is phosgenated to give diethyl ester of Namethylamidophosphoric acid.

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SAMARAY, L. I., KOLODYAZHNYY, O. I., and DERKACH, G. I., (DECEASED), Institute of Organic Chemistry, Academy of Sciences Ukrainian SSR

"Reaction of Pentavalent Phosphorus Acid Amides With Oxalyl Chloride"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 5, May 70, pp 994-998

Abstract: Diesters of N-alkylamidophosphoric acid react with oxalyl chloride to give 2,3-disubstituted phosphaoxazolidina-4,5-dienes. The interaction of diethyl ester of N-isopropylamidophosphoric acid (R=C2H5, R'=iso-C3H7) with oxalyl chloride gives, along with 4,5-diene, the acid chloride of ethyl ester of N-isopropylamidophosphoric acid. Phosphaoxazolidine-4,5-dienes are hydrolyzed by water to N-alkyloxaminic acids and alkyl phosphates and react with alcohols to give N-phosphorylated examinic acids.

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172 019 UNCLASSIFIED PROCESSING GATE--13HOV70 FITLE--ISOCYANATES OF PHOSPHORIC AND THIOPHOSPHORIC ACIDS -U-

AUTHOR-(04)-SAMARAY, L.I., KOLUDYAZHNYY, O.I., VISHNEVSKIY, O.V., DERKACH,

G.I.

COUNTRY OF INFO--USSR

SOURCE--ZH. OBSHCH. KHIM. 1970, 40(4), 750-4

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--ORGANIC PHOSPHORUS COMPOUND, AMIDE, PHOSPHORUS SULFIDE, INSECTICIDE, ORGANIC ISOCYANATE

CONTROL MARKING--NU RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1486

STEP NO--UR/00/9/70/040/004/0750/0754

CIRC ACCESSION NO--APO128863

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CIRC ACCESSION NOAPO128383 ABSTRACT/EXTRACT(U) GP-O- O TO:R:SUB2 P(O)NCO GAVE (C MICROFICHE. FACILITY	JVERNIGHT) THE FOLLOW	ING AMIDES: SHOWN ON

USSR UDC 547.279

TKALENKO, V. G., AMARSKAYA, A. P., KOLODYAZHNYY, Yu. V., SADEKOV, I. D., MINKIN, V. I., and OSIPOV, O. A., Rostov-on-the-Don State University

"Synthesis and Physical Chemical Properties of Aromatic and Heterocyclic Derivatives of Tellurium. V. Investigation of the Complex Formation of TeCl₄ With Schiff's Bases"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 9, Sep 73, pp 1943-1947

Abstract: Novel complex compounds of TeCl4 with benzalanilines and β -hydroxynaphtalanilines have been synthesized. On the basis of IR spectroscopic study of these complexes the conclusion was reached as to the localization of the coordination bond in azomethine molecules. It has been shown that the equimolecular complexes are energetically more feasible and their structures have been discussed. The heats of complex formation reactions are correlated with the substituent constants in the aldehyde (σ^4) and aniline (σ^0) nuclei of the azomethine molecules.

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POZHARSKIY, A. F., KUZ MENKO, V. V., KOLODYAZHNYY, YU. V., SIMONOV, A. M., Rostov State University, Rostov-na-Donu

"Relative Reactivity of the Pyrindine and Benzimidazole Systems in the Chichibabin Reaction"

Riga, Khimiya Geterotsiklicheskikh Soyedineniy, No 9, 1972, pp 1252-1263

Abstract: Some 1- d (or γ)-pyridiyl and 1- d (or γ)-pyridylethyl-benzimidazoles were synthesized and their reactivity to methyl iodide and sodamide was studied. The results are discussed from the point of view of basicity, the magnitude of the dipole moments, the mutual effect of heterorings and the distribution of electron density in them, calculated or estimated from the relative position of the chemical shifts in the paramagnetic resonance spectra. The benzimidazole system enters into the Chichibabin reaction appreciably more easily than the pyridine system. On the basis of the paramagnetic resonance spectral data for bases and cations of pyridine and benzimidazole it is proposed that this phenomenon arises from the high degree of polarizability of the C=N bond of the benzimidazole by comparison with the C=N bond of the pyridine on their coordination with NaNH₂. The protonation point of compounds I and II

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POZHARSKIY, A. F., et al., Khimiya Geterotsiklicheskikh Soyedineniy, No 9, 1972, pp 1252-1263

+ n=0; 6 nm?

the nature of the interaction of the imidazole and pyridine rings in N-pyridyl-benzimidazoles and the reaction of N-pyridylbenzimidazoles to sodium amide are discussed. The procedures for synthesizing a number of the indicated compounds, the method of measuring the ionization constants, taking the paramagnetic resonance spectra, performing the quantummechanical calculations and determining the dipole moments are described.

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110632b Nitrogen-containing biheterocyclic systems. I. Dipole moments and structure of 1-pyridylpyrazoles. Alieva, S. A.; Kolodyazhnyi, Yu. V.; Garnovskii, A. D.; Osipov. O. A.; Grandberg, I. I.; Krokhina, N. F. (Rostov-na-Donu Gos. Univ., Rostov-on-Don, USSR). Khim. Geterotsikl. Soedin. 1970, (1), 45-9 (Russ). The dipole moments of 1-pyridyl-pyrazoles and their amino derivs. were detd. in C₆H₆ at 25° with 5 × 10⁻⁴-2 × 10⁻⁴ mole fraction. Comparison of exptl.

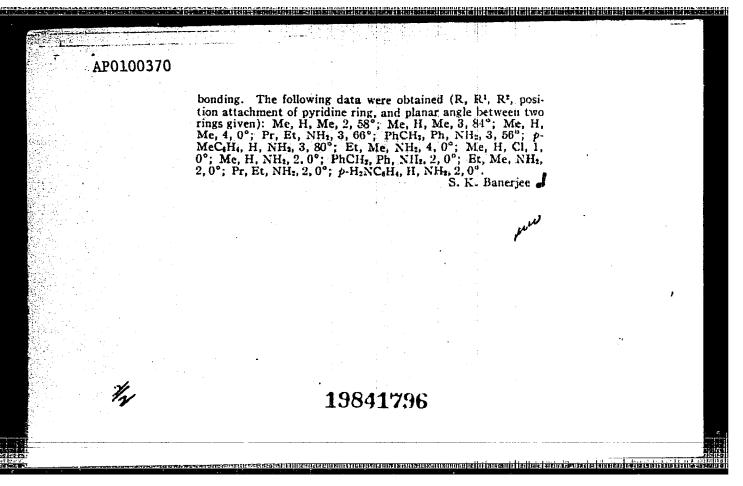
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and vectorially calcd. dipole moments shows that 1-pyridyl pyrazoles, and 1-(3- or 4-pyridyl)5-aminopyrazoles have non-planar configuration; the planar angle between the pyrazole and pyridine rings was calcd. For 1-(2-pyridyl)-5-aminopyrazoles the planar trans configuration is assumed due to intramol. H

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1/3 019 UNCLASSIFIED PROCESSING DATE--090CT70
TITLE-NITROGEN CONTAINING BISHETEROCYCLIC SYSTEMS. 11. NATURE OF THE

INFLUENCE OF THE 2.BENZIMIDAZOLYL RADICAL -U-

AUTHOR-(05)-KOLODYAZHNAYA, S.N., SIMONOV, A.M., KOLODYAZHNYY, YU.V.

OSIPOV, O.A., BREN, V.A.

COUNTRY OF INFO-USSR

SOURCE-KHIM. GETEROTSIKL. SOEDIN. 1970, (2), 238-44

DATE PUBLISHED 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--IR SPECTRUM, UV SPECTRUM, HETEROCYCLIC NITROGEN COMPOUND, BENZIMIDAZOLE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1983/1169

STEP NO--UR/0409/70/000/002/0238/0244

CIRC ACCESSION NO--APO054070

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2/3 019 UNCLASSIFIED PROCESSING DATE--090CT70
CIRC ACCESSION NO--AP0054070

ABSTRACT/EXTRACT-(U) GP-O- ABSTRACT. THE QUATERNARY SALTS ESP. OF 1, ARYL. 3, (BENZIMIDAZOL, 2, YL) BENZIMIDAZOLIUM UNDERGO RING OPENING REACTIONS WITH WEAK BASES (SUCH AS NH SUB3 IN PYRIDINE) AT ROOM TEMP. THE SALTS WITH A FREE NH GROUP (1.E., WITHOUT THE 1, ARYL SUBSTITUENT) REACT SIMILARLY. NO YLIDE FORMATION WAS FOUND. THE RING OPENING PRODUCTS DEFORMYLATED BY HEATING. THE UV AND IR SPECTRA OF VARIOUS STARTING COMPOS., PRODUCTS, AND INTERMEDIATES WERE RECORDED. A CH SUBZ GROUP BETHEEN THE TWO IMIDAZOLE RINGS INCREASES STABILITY. THE RINGS ARE THEN OPENED ONLY IN THE PRESENCE OF STRONG BASES AT ROOM TEMP.; THE PRODUCTS ARE RECYCLIZED IN ACID MEDIUM. THE PROTUNIZATION CONSTS. OF PK SUBA 1 AND PK SUBA2 OF MODEL COMPDS. WERE MEASURED IN HECN. THE FOLLOWING VALUES (7-7.5 HIGHER THAN THOSE MEASURED IN WATER) WERE OBTAINED FUR N, (, I, METHYLBENZIMIDAZUL, Z, YL, SUBSTITUTED COMPOS. (COMP., PK SUBA1. PK SUBA2. AND M.P. GIVEN): IMIDAZOLE. 11.46, 5.34,-; BENZIMIDAZOLE, 9.91, 5.01,-; PYRAZOLE, 9.59, -,91-ZDEGREES; INDAZOLE, 8.80. -. 171-2DEGREES: FOR N. (1. METHYLBENZIMIDAZOL, 2.YL, METHYLENE SUBSTITUTED COMPDS .: IMIDAZOLE, 13.73, 9.25, 1500EGREES; BENZIMIDAZOLE, 12.58, 9.21, 165-6DEGREES; PYRAZOLE, 12.27, 4.29, 109.5-10.0DEGREES; INDAZOLE, 12.03, 4.72, 167-BDEGREES; FOR SUBSTITUTED BENZIMIDAZOLES: N.ET. 13.22,-..: N,PR, 13.22,-... THE QUATERNARY SALTS WERE PREPD. BY HELTING AT 140-50DEGREES EQUINDLAR AMTS. OF N.ALKYLBENZIMIDAZOLE WITH 2, CHLORO OR 2, (CHLOROMETHYL) BENZIMIDAZOLE.

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PROCESSING DATE--09GCT70

CISC ACCESSION NO--APO054070

ABSTRACT/EXTRACT--THUS, THE FOLLOWING DERIVS. OF

N.(BENZIMIDAZOL,2,YL),U,PHENYLENEGIAMINE WERE PREPD. (M.P. CIVEN):

N.ME.N.FORMYL, 207-80EGREES; N.ME, 226-7DEGREES; N.PH, 268-9UECREES;

N.ME.N.FORMYL, 207-8DEGREES; N.ME, 226-7DEGREES; N.PH, 268-9UECREES;

SIMILARLY, N.PH AND N.ET.N PRIME,(I.METHYLBENZIMIDAZOL,

2,YL,O.PHENYLENEDIAMINES, M. 183-4DEGREES AND 222-3DEGREES, RESP., WERE

2,YL,O.PHENYLENEDIAMINES, M. 184-4DEGREES WAS PREPD.

METHYLENE),O.PEHNYLENEDIAMINE, M. 164-5DEGREES WAS PREPD.

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GARNOVSKIY, A. D. KOLODYAZHNYY, YU. V., ALIYEVA, S. A., KROKHINA, N. F., GRANDBERG, I. I., OSIPOV, O. A., and PRESMYAKOVA, T. M., Rostov-on-Don State University and All-Union Agricultural Academy imeni K. A. Timiryazev

"Complex Compounds of Metals With Nitrogen-Containing Ligands. XIX. Complexes of Tin Tetrachloride With 1-Pyridylpyrazoles and Their 5-Hydroxy(amino) Derivatives"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 5, May 70, pp 1114-

Abstract: Continuing their study of complexing in systems with 1120 several donor centers, the authors studied the interaction of tin tetrachloride with 1-(a, \$\beta\$ or \$\frac{y}{-pyridyl}\$) pyrazoles and their 5-hydroxy and amino derivatives. The dipole moments of the resultant complexes were determined and their IR spectra studied for purposes of solving the question of the configuration and tautomerism of the ligands. A comparative study was made of the IR spectra of ligand and complex molecules in order to establish the localization site of the coordination bond. 1/1

UNCLASSIFIED PROCESSING DATE--04DEC70

1/2 016 UNCLASSIFIED PROCESSING DATE--04DEC70

TITLE--NITROGEN CONT/ INING BIS HETEROCYCLIC SYSTEMS. IV. SYNTHESIS AND

STRUCTURE OF 5.HYDPOXY.AMINO.I.BENZAZOLYLPYRAZOLES -U
AUTHOR-(05)-GARNOVSKIY, A.D., KOLODYAZHNYY, YU.V., GRANDBERG, I.I.,

ALIYEVA, S.A., KROKHINA, N.F.

COUNTRY OF INFO--USSR

SOURCE-KHIM. GETEROTSIKL. SOEDIN. 1970, (5), 660-3

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS-HETEROCYCLIC OXYGEN COMPOUND, PYRAZOLE, THIAZOLE, DIPOLE MOMENT, ORGANIC SYNTHESIS, MOLECULAR STRUCTURE, HYDRAZINE ORGANIC COMPOUND, HYDROXYL RADICAL, AMINE DERIVATIVE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO---FD70/605012/E02 STEP NO--UR/0409/70/000/005/0660/0663

CIRC ACCESSION NO--APO140304

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

PROCESSING DATE--04DEC70 UNCLASSIFIED 016 2/2 CIRC ACCESSION NO--APO140304 ABSTRACT. 5, HYDROXY, 1, (BENZAZOL, 2, YL) PYRAZOLES (I) WERE PREPO. BY REFLUXING A ABSTRACT/EXTRACT--(U) GP-0-MIXT. OF 0.05 MOLE APPROPRIATE HYDRAZINE AND 0.05 HOLE ROOCHR PRIME! CO SUB2 R PRIMEZ OR PHCH SUB2 C(:NH) CHPHCN (II) IN 50 ML TERT BUOH, 5 ML H SUB2 0, AND 5 ML ACOH 12 HR. THUS PREPD. WERE THE FOLLOWING I (R, R PRIMEL, R PRIMEZ, Y, PERCENT YIELD, AND M.P. GIVEN): PH, H, OH, S, 73, 201DEGREES; PH. CH SUB2 PH. OH. S. 76, 165DEGREES; CH SUB2 PH. PH. OH. NH, 63, 224DEGREES; AND CH SUB2 PH, PH, DH, NCH SUB2 PH,-,-. REFLUXING EQUIMOLAR AMTS. 2, HYDRAZINOBENZOTHIAZOLE, II, AND BOPERCENT HCL IN ISO 5, AMINO, 4, PHENYL, 3, BENZYL, 1, (BENZTHIAZÓL, 2, YL) PYRÁZÓLE [I] (R EQUALS CH PROH GAVE 60PERCENT SUB2 PH, R PRIME! EQUALS PH, R PRIMEZ EQUALS NH SUB2, Y EQUALS S), M. 163DEGREES. DIPOLE MOMENT AND IR STUDIES SHOW THAT I EXIST BOTH INT HE CRYST. FORM AND IN SOLN. MAINLY IN HYDROXY AND AMEND FORMS, WHICH ARE STABILIZED BY INTRAMOL. H BONDING. GOS. UNIV., ROSTOV-ON-DON, USSR.

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--20NOV70
1/2 015
TITLE--DIPULE MCMENTS OF STEREDISOMERIC BETA CHLOROVINYLHERC'RY CHLORIDES

AUTHOR-(03)-KULGDYAZHNYY, YU.V., GARNOVSKIY, A.D., OKHLGBYSTIN, O.YE.

COUNTRY OF INFO--USSR

SGURCE--- GGKL. AKAD. NAUK SSSR 1970, 191(6), 1322-3 (PHYS. CHEM)

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS-DIPULE MOMENT, ISOMER, VINYL COMPOUND, DRGANDMERCURY COMPOUND, CHLORINATED ALIPHATIC COMPOUND, DIELECTRIC PROPERTY

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/0215

STEP NO--UR/0020/70/191/006/1322/1323

GIRC-ACCESSION NO-FATO132487

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UNCLASSIFIED

PROCESSING DATE--20NOV70

2/2 015

CIRC ACCESSION NOU--AT0132487

ABSTRACT/EXTRACT--(U) GP-0- AdSTRACT. THE FOLLOWING DIPOLE MOMENTS (IN STRACT/EXTRACT--(U) GP-0- AdSTRACT. THE FOLLOWING DIPOLE MOMENTS (IN C) WERE CALCD. FROM DIELEC. DATA IN C SUB6 H SUB6 AT 25DEGREES: CIS D) WERE CALCD. FROM DIELEC. DATA IN C SUB6 H SUB6 AT 25DEGREES: CIS OLCH:CHHGCL 2.92; TRANS ISOMER 1.81; AND 1:1 MIXT. GF THE ISOMERS (H. CLOSE TO THAT OF THE PURE CIS FORM, THIS METHOD IS UNDERSIARBLE FOR CLOSE TO THAT OF THE PURE CIS FORM, THIS METHOD IS UNDERSIARBLE FOR CLOSE TO THAT OF THE PURE CIS FORM, THIS METHOD IS UNDERSIARBLE FOR CLOSE TO THAT OF THE PURE CIS FORM, THIS METHOD OF THE PURE CIS FORM, THIS METHOD IS UNDERSIARBLE FOR CLOSE TO THAT OF THE PURE CIS FORM, THIS METHOD OF THE PURE CIS FORM, THE PURE CIS F

173 £10 UNCLASSIFIED PROCESSING DATE--020CT70-TITLE--INVESTIGATION OF MICRODRGANISM PEPTID HYDROLASES -U-

AUTHOR-(04)-ISIPEROVICH, G.S., LOSEVA, A.L., KOLODZEYSKA, M.V., LISENKOV,

COUNTRY OF INFO--USSA

SOURCE--UKRAYNS'KIY BIOKHIMICHNIY ZHURNAL, 1970, VOL 42, NR 2, PP 227-233

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--MICROORGANISM, PEPTIDE HYDROLASE, FUNGUS, STREPTOMYCES, PROTEIN, PEPSIN, TRYPSIN

CENTRUL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY RECL/FRAME--1988/1531

STEP NO--UR/0300/70/042/002/0227/0233

CIRC ACCESSION NO--APO106284

UNCLASSIFIED

PROCESSING DATE--020CT70 UNCLASSIFIED 2/3 010 CIRC ACCESSION NO--APOLO6284 ABSTRACT. THE ARTICLE DEALS WITH BRIEF ABSTRACT/EXTRACT--(U) GP-0-REVIEW OF WORKS IN WHICH THE AUTHORS STUDIED THE COMPLEXES OF PEPTID HYDROLASES, PRODUCED BY STREPTOMYCES GRISEUS, ASPERGILLUS FLAVUS, A. SPERGILLUS ORYZAE. THE METHODS ARE DEVELOPED OF DISTINGUISHING THESE COMPLEXES AS WELL AS OF STR. GRISEUS IN THE CRYSTALLINE FORM. ALL THREE ARE CAPABLE OF SPLITTING IN THE PROTEIN MOLECULE UP TO SOPERCENT OF PEPTIDE LINKS LIKE "PRONASE". THE PHYSICUCHEMICAL PROPERTIES ARE INVESTIGATED OF THE OBTAINED ENZYMIC PROTEINS: PH OPTIMUM OF ACTIVITY, STABILITY, EFFECT OF METAL IONS, EDTA, SOME DENATURANT FACTORS. STUDYING THE EFFECT ON SYNTHETICAL SUBSTRATE, THEIR ENZYMIC COMPOSITION WAS INVESTIGATED; THE PROTEINASE ACTIVITIES ARE FOUND OF THE TRYPSIN TYPE AS HELL AS OF PEPSIN (IN THE CRYSTALLINE PROTEASE OF STR. GRISEUS); A SERIES OF PEPTIDASE ACTIVITIES, LEUCINAMINOPEPTIDASE, CARBOXYPEPTIDASE, AMINOTRIPEPTIDASE, VARIOUS DIPEPTIDASES, GLYCILE GLYCINIC, GLYGILE I LEUCINIC AND OTHERS IS FOUND. THE COMPLEXES WERE SEPARATED BY THE METHODS OF IONIC EXCHANGE CHROMATOGRAPHY, GEL FILTRATION. DISC ELECTROPHORESIS, SOMETIMES BY SEDIMENTATION; THEIR CONSIDERABLE HETEROGENEITY IS OBSERVED (FROM FIVE UP TO EIGHT THE SEPARATION OF SOME PROTEINASES AND PEPTIDASES IS COMPONENTS). PROTEINASE ASP. FLAVUS IS DISTINGUISHED CARRIED OUT ON DEAE CELLULOSE. AND STUDIED, IT IS SHOWN THAT THE PRESENCE OF METAL AND THIOL GROUP IONS IS OF NO IMPORTANCE FOR MANIFESTATION OF ITS ACTIVITY.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

3/3 010 UNCLASSIFIED PROCESSING DATE--020CT70
CIRE ACCESSION NO--APOLO6284
ABSTRACT/EXTRACT--IN THE COMPLEX FROM ASP. ORYSAE PROTENASE IS FOUND OF
THE TRYPSIN TYPE WITH UNUSUAL PROPERTIES, HYDROLYZING BENZOYL ARGININE
METHYL ESTER AND BENZOYL ARGININE ETHYL ESTER, BUY NOT SPLITTING TOSYL
ARGININE METHYL ESTER AND HAVING NO AMIDASE ACTIVITY BY BENZOYL ARGININE
PARANITROANILIDE. EXCEPTIONALLY HIGH CONCENTRATION IS FOUND OF
AMINOPEPTIDASE HYDROLYZING 1 LEUCILE GLYCILE GLYCINE.

UNCLASSIFIED

USSR

UDC: 621.375.432.3

KOLOGRINOV, A. G.

"Graph-Analytic Calculation of an Emitter Follower"

V sb. Poluprovodn. pribory v tekhn. elektrosvyazi (Semiconductor Devices in Technical Electrical Communications--collection of works), Moscow, "Svyaz'", 1970, pp 55-63 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 1D110)

Translation: The author analyzes the amplitude-frequency (frequency), phase-frequency (phase) and transient responses of an emitter follower. Circle diagrams are used to establish a new property of the circuit — the presence of a maximum passband in the case of a less-tahn-optimum feedback parameter. Parameters are determined which correspond to the maximum passband, minimum phase distortions and minimum overswing of the transient response. Six illustrations, bibliography of seven titles. Resume.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

USSR

UDC: 539.376+532.135

KOLOKOL'CHIKOV, V. V.

"Quasilinear Theory of Moment Viscoelasticity"

V sb. Uprugost' i neuprugost'. Vyp. 1 (Elasticity and Inelasticity-collection of works, No 1), Moscow, Moscow University, 1971, pp 211-220 (from RZh-Mekhanika, No 5, May 72, Abstract No 5V431)

Translation: A quasilinear cubic theory of moment viscoelasticity is constructed on the basis of a number of hypotheses. This theory is a generalization of the momentless quasilinear theory. The equations of state contain 54 singular secondary relaxation kernels. Integral expressions are derived which give the relation between the secondary kernels of creep and relaxation in general form. It is shown that if the spherical parts of the tensor of force stresses and the strain tensor have no effect on shear properties, then the number of secondary singular relaxation kernels decreases to 45. In the secondary kernels, 6-singularities are isolated, i. e. the cubic moment theory is broken down into four component theories: regular moment viscoelasticity, moment viscoelasticity with regular secondary influence functions of two arguments, principal moment viscoelasticity, and moment cubically nonlinear elasticity. L. Kh. Papernik.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

USSR

UDC: 539.376+532.135

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KOLOKOL'CHIKOV, V. V.

"Concerning Isotropy of Materials With Memory"

V sb. Uprugost' i neuprugost'. Vyp. 1 (Elasticity and Inelasticity--collection of works, No 1), Moscow, Moscow University, 1971, p 268 (from RZh--Mekhanika, No 5, May 72, Abstract No 5V451)

Translation: The author considers materials whose stress tensor is a functional of the strain tensor and of temperature. It is assumed that the stress tensor is, generally speaking, nonanalytically dependent on deformations, i. e. isotropic materials are considered whose stresses do not decompose into an integral series with respect to powers of deformations. The author studies a special class of isotropic materials having so-called elastic (strong) isotropy. Expression of the stress tensor in terms of the strain tensor for materials having elastic isotropy is by definition form—invariant for the following transformation of the strain tensor ϵ_{ij} to new quantities ϵ'_{ij}

where the matrix of transformation $\textbf{C}_{\alpha\beta}$ is orthogonal and depends on time and coordinates.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

WDC 621.771:621.783

USTIMENKO, V. A., KOLOGRIYOV, N. P., KRYLOVSKIY, A. P., SKREMENTOV, V. M., TKACHEV, A. V., and CHERVYAKOV, V. V.

"Rolling of Sheets Plated With OKh23N28M3D3T Steel"

Dnepropetrovsk, Metallurgicheskaya i Gornorudnaya Promyshlennost', No 5, Sep-Oct 70, pp 81-82

Abstract: A description is given of new technological process of rolling corrosion-resistant sandwich sheets plated with OKh23N28M3D3T (RI943) complex alloy steel. The sheets are used for manufacturing containers for stocking and transporting highpurity acids. The chemical compositions of the basic metal (20K steel) and the plating metal are given. Data on the strength properties of the two steels are also given. The shearing strength along the yelding plane substantially exceeds the minimum GOST 10885-64 value (15 kg/mm). The high adhesion strength of the layers was confirmed by bending tests. The results show the feasibility of using this technology for the mass production of large-size sheets with a plating layer which completely satisfy the requirements of GOST 10885-64.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

1/2 025 UNCLASSIFIED PROCESSING DATE--18SEP70

TITLE--A COUPLE THEORY OF SMALL ELASTIC PLASTIC DEFORMATIONS -U-

AUTHOR--KOLOKOLCHIKOV, V.V.

COUNTRY OF INFO--USSR

SOURCE--MOSKOVSKII UNIVERSITET, VESTNIK, SERIIA I MATEMATIKA, MEKHANIKA, VOL. 25, JAN.-FEB. 1970, P. 76-84

DATE PUBLISHED----70

SUBJECT AREAS--MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--PLASTIC DEFORMATION, ELASTIC DEFORMATION, POTENTIAL ENERGY,

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1984/0120

STEP NO--UR/0055/70/025/000/0076/0084

CIRC ACCESSION NO--AP0054916

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

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2/2 025 CIRC ACCESSION NOAF	20054916	PROCESSING DATE18SEP70
ABSTRACT/EXTRACT(U) PLASTIC DEFORMATION ENERGY, SIMPLE LOAD) GP-O- ABSTRACT. A COUNTY OF THEOREM OING AND ELASTIC UNLOADING AND ELASTIC UNLOADING OF SOME THEORIES (OF COUPLE PLASTICITY AND THE
COUPLE THEORY OF S	TALL ELASTIC PLASTIC DEFI	DRMATIONS IS ESTABLISHED.
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	UNCLASSIFIED	

· USSR· UDC: 51

KOLOKOLOV, A. A.

"On Estimating the Number of Iterations for Direct Algorithms of the Method of Truncation in Integral Linear Programming"

V sb. Mat. analiz ekon. modeley. Ch. 1 (Mathematical Analysis of Economic Models--collection of works. Fart 1), Novosibirsk, 1971, pp 137-164 (from RZh-Kibernetika, No 1, Jan 72, Abstract No 1V851)

Translation: The author notes that up to the present only one paper (RZh-Mat, 1970, 127467) has been published dealing with the theoretical estimate of the number of iterations in the method of truncation. In this paper an estimate from below is found for the maximum number of iterations for one of the dual algorithms — The completely integral algorithm of Gomori.

In the present paper, direct algorithms of the method of truncation are investigated which owe their origin to Junge (RZh-Mat, 1966, 9V190; 1969, 6V356). A general description is given of the investigated class of algorithms in which individual algorithms are distinguished from one another only by the rules for selecting the guide columnand the generating line (the line from which truncation is constructed).

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UDC: 51

KOLOKOLOV, A. A., <u>Mat. analiz ehon. modeley. Ch. 1</u>, Novosibirsk, 1971, pp 137-164

Proof is given for the simple lemma 2. Let n_1, \ldots, n_l be whole numbers $(l \geq 2)$. λ_l are whole numbers $(j = 1, 2, \ldots, l, j \neq j_0)$, $n_{j_0} = -n_{j_0}$, $n_{j_1} = n_{j_1} + \lambda_l n_{j_0}$. Then the greatest common divisor $(n_1, \ldots, n_l) = l \operatorname{GCD}(n_1, \ldots, n_l)$. On the basis of this lemma, the investigation of simplex tables in direct algorithms reduces to a study of simpler simplex tables (where the greatest common denominator in each line for all elements except the free term is equal to 1).

Only problems with two non-basis variables are studied further. The finiteness of direct algorithms is proved for these problems, estimates are given of the number of iterations from above, and proofs are given for the methods of selecting the problem and the algorithm for which the estimate is attained. Yu. Finkel'shteyn.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

UDC: 512.25/.26+519.3:330.115

KOLOKOLOV, A. A. KHOKHLYUK, V. I.

"On Two Direct Algorithms of Linear Whole-Number Programming"

V sb. Optimal'n. planirovaniye (Optimum Planning--collection of works), Vyp. 16, Novosibirsk, 1970, pp 33-46 (from RZh-Kibernetika, No 7, Jul 71, Abstract No 7V622)

Translation: Construction of finite direct algorithms of the cut-off method has been a more complex problem than the construction of finite two-way algorithms originating directly from the work of Gomori (RZh-Mat 1959, 7256). It wasn't until 1965 that Young first proposed such an algorithm, but with a very complex rule for selecting the generating row and a no less complicated justification of finiteness (RZhMat, 1966, 9V190). Simplified versions of the algorithm were given by Young (RZh-Mat, 1969, 6V356) and Glover (RZh-Mat, 1969, 6V357). This paper takes up the consideration of two direct algorithms for whole-number linear programming. To simplify the direct algorithm, finiteness is proved

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KOIOKOIOV, A. A., KHOKHLYUK, V. I., Optimal'n. planirovaniye, Vyp. 16, Novosibirsk, 1970, pp 33-46

under a simpler rule for selecting the generating line than in the above mentioned papers. Two numerical examples are given. The results of a computer experiment on solution of small problems are presented. Yu. Finkel'shteyn.

- 36 -

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

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 | Troublette of Characteristics are proposed (Modern) Problette of Characteristics | Sovewhelmyye Fronteny Kibernetiki Stornik (Modern Froblens of Cyterreties | Collection of Works), Hoseaw, "Nenha," 1970, pp 262-261 | The state of the s | Abstract: This paper is devoted to modeling the processes of the undutating activity |
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Robeling the Adptation of a Neuron and Spontaneous Activity of a Feural Kat" Robeling the Adptation of a Neuron and Spontaneous Activity of a Feural Kat" Soremennys Fooleny Kibernetiki Stornik (Notern Froblens of Opterneties Collection of Yorkel, Hoscow, "Neuke," 1970, pp 252-257 Collection of Yorkel, Hoscow, "Neuke," 1970, pp 252-257 Abstract: This paper is devoted to modeling the processes of the undulating activity	Rotokoloy, A. 3. and SHOLIFIX. The Activity of a Fewer Rat. Robeling the Adaptation of a Meuron and Spontaneous Activity of a Fewer Rat. Sorveneshays Froblemy Kibernetiki Stornik (Modern Froblems of Optermettes Collection of Yorks). Mescow, "Nesdee," 1970, pp 252-257 Abstract: This paper is devoted to modeling the processes of the undulating activity	ROLOGIOV, A. S. and SHILLEY, Ju. 4. C. 33 APRA 14% Adding the Adaptation of a Neuron and Spontaneous Activity of a Neural Nat." Rodeling the Adaptation of a Neuron and Spontaneous Activity of a Neural Nat. Sovewellnyse Froblemy Kibernetiki Stornik (Modern Froblems of Cyterreties Collection of Yorkel, Hoscow, "Neuka," 1970, pp 262-227 Abstract: This paper is devoted to modeling the processes of the undulating activity	Roboticy, A. S. and SHRI. Laborated and Spontaneous Activity of a Federal Kat" Woodaling the Adaptation of a Mouron and Spontaneous Activity of a Federal Kat" Sovewellnyte Froblemy Kibernetiki Stornik (Modern Froblems of Sperreties Collection of Yorkel, Hescow, "Newhar," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the undulating activity
 | ************************************** | Soveweenayse Froblemy Kibernetikl Stornik (Modern Problems of Operneties Collection of Yorkes). Hoscow, "Newha," 1970, DD 252-251 Abstract: This paper is devoted to modeling the processes of the undulating scittify | Sorremenuys Fooling Kibernetiki - 50 FM K 1800-F 1 170 Collection of Yorkel, Hercov, "Neuka," 1970, DD 252-257 Collection of Yorkel, Hercov, "Neuka," 1970, DD 252-257 Collection of Yorkels Hercov (Neuka) 1970, DD 252-257 Collection of Yorkels (Neuka) 1970, DD | Collection of Yorks; Hescey, headen, ayou, or near any the undulating activity Abatract: This paper is devoted to modeling the processes of the undulating activity | Abstract: This paper is devoted to modeling the processes of the undulating activity | Abstract: This paper is devoted to modeling the provises of
 | | A model of a helpon, unith contains a blocking encenter which frequently is con- trollys and a pulse shaper, is used as the elementary unit of a reusal ret. The respon midel has a static characteristic which is alreating unit of a countaint. The response of shape attite the surrelion, the model possesses the property of dashittish. Adaptating is understood to seam a decrease in time of the pulse frequency gonerated by an individual neuron in the presents of a constant infinite statem. The wait of by an individual neuron in the presents of a constant infinite statem. The wait of the accompliabing adaptation in a neuron are statement; I) alterestion of the neuron it appears that on the basis of adaptating returns one car model a stoutancess generator of pulse batches is "neuron militarization"; and constitut a satisfacture 1/2 | A model of a helpon, unith contains a blocking entertor which frequently is contained and the shaper, is used as be elementary unit of a reusal ref. The responsible haper, is used as the elementary unit of a reusal ref. The responsible has a static characteristic which is alrest repertively. Itselfes the properties of successful the strategies the properties of successful the property of dashiticin. Adaptating is understood to seam a decrease in time of the pulse frequency potential by an individual neutron into presente of a continual finding station. The ways of woods individual neutron in the presente of a continual light settion. The ways of the count attorn 21 introduction of regular freedback. The liquid action 21 introduction of regular feedback. It appears that on the basis of adapting returns one can exert a statishing generator of pulse batters is "present militarization" and positional a statishing generator of pulse batters is "present militarization" and positional a statishing generator of pulse batters is "present militarization". | A model of a newron, which contains a blocking encenter; which frequently is tending and a pulse shaper, is used as the elementary unit of a rowsh ret. The rearms sudel has a static chreateristic which is almost reperitivate. Insides the properties of state and time summation, the model possesses the property of adaptation, properties of state and time summation, the model possesses the property of adaptation Adaptation is understood to mean a decrease in time of the palse forwards; some rated by an individual neutron state and a commitment in a state. The summation is accomplianting adaptation in a neuron see statemed: I) elements of the neutron from the limit action. I) introduction of regative feedback. It appears that on the least of adaptatic feurons one can exceed a abouting generator of pulse batches is "neuron sufficientialized") and constitutions. | A model of a heaven, which contains a blocking encenter; which frequently is the trollyd and a pulse shaper, is used as the elementary unit of a rowel ret. The reason audel has a static chreaterisatio which is almost reperitivate. Insides the properties of state and time summation, the model possesses the property of adaptation, properties of a same and time summation, the model possesses the property of adaptation Adaptation is understood to seen a decrease in time of the pulse forecasted by an individual incurrent of the presentes of a constant input settom. The ways of by an individual incurrent of the presentes of a constant input settom. The ways of a second limit action of the neutron from the input action of lateral time freedach. It appears that on the lasts of adapting neutrons one can exceed a abouting generator of pulse batches is "newersh militarization"; and constitution and adaptation a statishing generator of pulse batches is "newersh militarization"; and constitution and the constitution of the pulse of possible of
the pulse batches is "newersh militarization"; and constitution of pulse batches is an adaptation. | A model of a neuron, unith contains a blocking encenter; which frequently is the stages, it used as the elementary unit of a routel net. The rearms would has a static chreaterisatio which is almost reperituous. Itsides the respective of a static stagesterized which is almost reperituous. Itsides the properties of a static stagesterized which is almost reperituous of adaptation, properties of stagesterized to sean a decrease in time of the pairs frequently giverated by an individual neutron store presents of a constitution in action. The ways of by an individual neutron store presents of a constitution in a stage of a constitution of a stage of a complianting stagesterized in a neutron from accomplianting stagesterized in a neutron from the input action; 2) introduction of register freebach. 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Itsides the representate a static chreateristic which is almost ingeritately of adaptation, properlies of sace and time aumoston, the model possesses the travelty of adaptation, properlies of sace and time aumoston, the model possesses the travelty forcested Adaptation is understood to sean a decrease in time of the palse freedom, Tass wast of by an individual neutron on the presente of a constitution; stitute action. The wast of by an individual neutron in the presente of adaptation in a fewer of adaptation of register freedom. It appears that on the lease of adapting returns one seem seems a significant generator of pulse batches is "neverth militalization" and constitution. | A model of a heaven, unith contains a blocking encenter which frequently is trollyd and a pulse shaper, is used as the elementary unit of a rowel ret. The reach model has a static chreateristic builton is almost repertured. 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| Rodeling the Adaptation of a Mouron and Spontaneous Activity of a Mouron Lat" Boveweninys Froblems Kibernetiki Stornik (Modern Froblems of Externeties Collection of Yorkel, Hoscow, "Kenka," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. | ROLOGOLOGY A. S. art SHULLFIX The A. C. 33 APRA 141. "Rodeling the Adaptation of a Mourou and Spontaneous Activity of a Faural Est." Bovewelmyre Froblems Kibernetiki Stornik (Modern Froblems of Sterretics Collection of Yorkel, Moscov, "Konka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural met. | ROLOGOLOY, A. S. and SHILLPH. Junea. " 33 APRA 14% Redeling the Adaptation of a Housen and Spontaneous Activity of a Housel Kat" Boveweelmyse Froblemy Kibernetiki Stornik (Modern Froblens of Sterreties Collection of Workel, Hescow, "Kenka," 1970, pp. 262-267 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. | ROLOGICAL A. S. and SHULLLAND AND STREET AND STREET ACTIVITY of a Kaural Kat Rootling tie Adaptation of a Meuron and Spontaneous Activity of a Kaural Kat Rootling tie Street Lat. Sovensennys Froblemy Kibernetiki Stornik (Modern Froblems of Sterrettes Collection of Yorks), Mescow, "Newhea," 1970, pp 252-257 Collection of Yorks), Mescow, "Newhea," 1970, pp 252-257 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural set. | Rodeling the Adaptation of a Mouron and Spontaneous Activity of a Fauncal Est. Bovewennyye Froblems Kibernetiki Stornik (Modern Froblems of Sterretics Collection of Yurms), Hoscov, "Kenka," 1970, pp 262-261 Collection of Yurms), Hoscov, "Kenka," 1970, pp 262-261 Abatract: This paper is devoted to modeling the processes of the undulating activity of a neural met.
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 | Abstract: This paper is devoted to modeling the processes of the processes of a neural net. | OF B ACCIDE TO . | A model of a Privary and as the elementary with of a rowel ret. The trainin and a pulse shaper, it was do as the elementary with of a rowel ret. The reason model has a statle characteristic which is almost repertively of adaptation, properly—of successful the property of adaptation. The property of adaptation of the property of adaptation is understood to seem a decrease in time of the pairs of requestly plant and the property of adaptation and the section of the rewords of a constitute state. The ways of accomplishing destration in a neuron site of samples 1) elements of the neuron from the limit action; 2) introduction of regitive feedback. It appears that on the basis of adapting returnes one can exceed a significant property of the party of t | A model of a previous account of a recursed ref. The training and a pulse shaper, it used as the elementary unit of a recursed ref. The rearon model has a statle characteristic which is alrest legentwose. Itselfast the rearon model has a statle characteristic which reference is the property of adaptation, property of samples and the authority the model possesses the property of adaptation and statle and the presents of a contained their position. Two wash of by an individual neutron in the presents of a cancinate input settors. Two wash of accomplishing samplestation in a teuron set examined: 1) elements of the neutron from the input action; 2) introduction of regular feedback. It appears that on the basis of adapting neutrons one can excel a apositional presents of pulse batters (a "enversh militarization") and constitution a skitching present or pulse batters (a "enversh militarization") and constitution a skitching and the constitution of the pulse batters (a "enversh militarization") and constitution. | a model of a previous account of a recovery training and a pole to be about to the state the reason model has a static characterisatio which is almost repertivate. Install the reason model has a static characteristic which is almost reperty of adaptation, properties of state and the surmation, the model polesses the property of adaptation. Adaptation is understood to seam a decrease in time of the pulse frequency gonerated Magnation is understood to seam a decrease in time property of adaptation. Two whit of by an individual neutron in the prevents as azamized: I) elements. Two whit of accomplishing adaptation is surpon as azamized: I) elements of the neutron from the input action; 2) introduction of regitive feedback. It appears that on the basis of adapting returns one can exceed a apositional property of pulse batches is "grarph multivitherized") and constitute a skitching generator of pulse batches is "grarph multivitherized") and constitute a skitching to the constitute of the pulse of the pulse batches is "grarph multivitherized") and constitute a skitching the constitute of the pulse of the pulse batches is "grarph multivitherized" and constitute a skitching the pulse of the pulse batches is grarph multivitherized. | A model of a Private state of the elementary unit of a round hat a faile of bareau for the fraction and a pulse shaper, is used as the elementary unit of a round hat a static characteristic which is allowed to prove the pulse for expectly of adaptation, represents of a same and time accomplishes the model possesses the pulse forequency governed Adaptation to understood to essay a decrease in time of the pulse forequency governed by an individual neutro in the presents of a commission limit getter. Two wash of the normalization is recorded in
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| Rodeling the Adaptation of a Meuron and Spontaneous Activity of a Neural Kat" Sovewelling the Adaptation of a Meuron and Spontaneous Activity of a Neural Kat" Sovewelling to Adaptation of a Meuron and Spontaneous (Modern Problems of Specimenties - Gollection or Yorka). Hencew, "Menha," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking greenitor whise frequency is contained and a pulse shaper, is used as the elementary unit of a neural net. The troiled and a pulse shaper, is used as the elementary unit of a neural net. | Roboroloy, A. S. and SHOULFLY, The A. C. 33 APRA 1411 "Rodeling the Adaptation of a Mouron and Spontaneous Activity of a Mouron Activity of a Power Lat." Borrowennys Froblemy Kibernetiki Stornik (Modern Froblems of Sterrettes Golfaction or Yorks). Hescow, "Nenha," 1970, pp 252-251 Collection or Yorks). Hescow, "Nenha," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuron, unith contains a bio-king gracetic units of a neural net. The trained souls shaper, is used as the elementary unit of a neural net. The | ROLOGION, A. S. and SHILLEY. Ju. 44. C. 33 APRA 14". Rodeling the Adputation of a Neuron and Spontaneous Activity of a Neural Nat." Sovermennys Foolsmy Kibernetiki Stornik (Nodern Froblems of Sterneties Collection or vorkel, Horcov, "Neuka," 1970, DD 252-257 Obstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking greenitor units frequency is contained and a pulse shaper, is used as the elementary unit of a neural net. The | RODOGLOY, A. S. and SHRL. Laborated and Spontaneous Activity of a Faural Kat" **Rodeling the Adaptation of a Mouron and Spontaneous Activity of a Faural Kat" **Sovewennyye Froblemy Kibernetiki Stornik (Modern Froblems of Operations of Sperreties **Collection of Workel, Hoscow, "Kenka," 1970, pp 262-267 **Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. **Abstract: This paper is devoted to modeling the processes of the undulating activity of a model of a neural net. The results a sub-xing gracerator ways frequency is controlled and a subset of a neural net. The results of a neural net. | Rodeling the Adaptation of a Neuron and Spontaneous Activity of a Faural Eat* Sovewennys Froblemy Kibsreitkl Stormik (Modern Froblems of Sterreties Gollection or Yorkel, Mescow, "Menha," 1970, pp 262-267 Collection or Yorkel, Mescow, "Menha," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the unsulating activity of a neural net. A model of a neuran, unith contains a blocking gracetic ways frequency is contained and a sold policy larger is used as the elementary unit of a resulative. The trouble shaper, is used as the elementary unit of a resulative.
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| An model of a neural, is used as the elementary units of a neural Kat" A model of a neural net. A model of a neural net. A model of a neural, is used as the elementary units of a neural net. | ROLOROLOGY, A. S. art SHULLEYS, The As. of 33 APRA 1411 The Modeling the Adaptation of a Meuron and Spontaneous Activity of a Faural Est. Soveweelneys Froblemy Ribernetikl Stornik (Modern Froblems of Otherreties Soveweelneys Froblemy Ribernetikl Stornik (Modern Froblems of Otherreties Soveweelneys Froblemy Ribernetikl Stornik (Modern Froblems of Otherreties Collection of Workel, Hescow, "Kenda," 1970, pp 262-251 Collection of Workel, Hescow, "Kenda," 1970, pp 262-251 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural result. The trolled and a pulse shaper, is used as the elementary unit of a certain result of a certain result. The trolled and a pulse shaper, is used as the elementary unit of a certain result of a certain results of a certain | ROLOGOLOY, A. S. and SHILLEY The A. C. 33 APRA 14% Receiving the Adaptation of a Neuron and Spontaneous Activity of a Neurol Nat. Sovereshays Froblemy Kibernetiki Stornik (Notern Froblems of Sterrettes Collection or Yurke). Herope, "Neuka," 1970, pp 262-261 Collection or Yurke). Herope, "Neuka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuran, unith contains a blocking generator under frequency is controlled and a pulse shaper, is used as the elementary unit of a neural net. The trolled and a pulse shaper, is used as the elementary unit of a neural net. | ROLOGICAL S. and SHULLLA | Rodeling the Adaptation of a Nouron and Spontaneous Activity of a Faunch Est. Boveweninys Froblems Kibernetikk Stornik (Modern Froblems of Sterretics Collection of Yorkel, Hoscow, "Kenka," 1970, pp 262-261 Collection of Yorkel, Hoscow, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuron, unith contains a blocking generator uncon frequency is controlled and a pulse shaper, is used as the elementary unit of a course the trolled and a pulse shaper, is used as the elementary unit of a course the trolled and a pulse shaper, is used as the elementary unit of a course the trolled and a pulse shaper, is used as the elementary unit of a course the trolled and a pulse shaper. | *** Modeling the Adaptation of a Peufon and Pro- Sorgementy's Fooliany Kibstratiki Story (Modern Problems of Syterreties Soilaction of Yorkel. Hercov, "Newha," 1970, pp 252-257 Collection of Yorkel. Hercov, "Newha," 1970, pp 252-257 Abstract: This paper is devoted to modeling the processes of the undulating activity and a new activity of a neural net. A model of a neural, unlike contains a blocking generatory units of a resural net. The trollyd and a pulse slaper, is used as the elementary unit of a resural net.
 | Soveweenny's Froblemy Kibernetiki Stornik (Modern Problems of Opterneties Collection of Yorks), Mescow, "Newmen," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural set. A model of a neuran, unith contains a blocking generator unith Tecturnoy is used as the elementary unit of a neural set. The trolled and a pulse placer, is used as the elementary unit of a neural set. The | Sorrementage Fooling Kiberntiki - Sorria (1970, DD 252-26) Collection of Yorks). Hence, "Nestes," 1970, DD 252-26] Abstract: This paper is devoted to modeling the processes of the unduleting scittify Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuran, unlike contains a blocking generatory units of a neural net. The trollyd and a pulse slaper, is used as the elementary unit of a neural net. The trollyd and a pulse slaper, is used as the elementary unit of a neural net. | collection of Yurks; herever, herever, a year and a second the undulating activity Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, unith contains a blocking generator whose frequency is used as the dependant unit of a course net. The trolled and a pulse shaper, is used as the dependant unit of a course net. The | Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. of a neural net. A model of a neuron, unith contains a blocking generator uncoa frequency is controlled and a pulse slaper, is used as the dementary unit of a course net. The trolled and a pulse slaper, is used as the dementary unit of a course net. The | Abstract: This paper is devoted to modeling the processes of a neural net. A model of a neuron, unitch contains a blocking generator whose frequency is used as the elementary unit of a mounal net. The trolled and a pulse shaper, is used as the elementary unit of a mounal net. The
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| Rodeling the Adaptation of a Mouron and Spontaneous Activity of a Foundablet. Sovewenly we Froblet Kibernetiki Stornik (Modern Froblets of Sterreties Solection of Yurks), Hoscow, "Kooka," 1970, pp 262-261 Collection of Yurks), Hoscow, "Kooka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a Modeling emerator which frequency is controlled and a pulse shaper, is used as the elementary unit of a round net. The resident and and a pulse shaper, is used as the elementary unit of a round net. | Roborology A. S. and SHULLEYS. The A. C. S. PRA. 1970. ROBOROLOgy A. S. and SHULLEYS AND SPONTANCESS ACTIVITY of a Fauncal Eat." Rodeling the Adaptation of a Mourou and Spontaneous Activity of a Fauncal Eat. Sovewenlyny Froblemy Kibernetikk Stornik (Modern Froblems of Sperreties Collection of Yorkel, Hoscow, "NewMas," 1970, pp 262-257 Collection of Yorkel, Hoscow, "NewMas," 1970, pp 262-257 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a Mooking graceritor which frequency is controlled and a pulse shaper, is used as the elementary unit of a reusel net. The resident and and a pulse shaper, is used as the elementary unit of a reusel net. The resident and and a pulse shaper, is used as the elementary unit of a reusel net. | ROLOGOLOGY, A. S. and SHILLEY The A. C. 33 APRA 14%. Who aling the Adaptation of a Mouron and Spontaneous Activity of a Mouron Lat. Bovewelling Troblemy Kibernetikk Stornik (Modern Froblems of Externetics Collection of Wurkel, Moscow, "Kenka," 1970, pp 242-251 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a Working emerator whose frequency is contrained as the elementary unit of a reusal net. The results and a pulse shaper, is used as the elementary unit of a reusal net. The results and a pulse shaper, is used as the elementary unit of a reusal net. | RODOGION, A. S. and SHRLLLA-MANA AND STREET | Rodeling the Adaptation of a Mourou and Spontaneous Activity of a Faunch Est. Bovenentary Problems Kibernetiki Stornik (Modern Froblems of Sperreties Collection of Yorks), Hoscow, "Newles," 1970, pp 262-227 Collection of Yorks), Hoscow, "Newles," 1970, pp 262-227 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a Mooking graphito which the training and a pulse shaper, is used as the elementary unit of a neural net. The reality and a pulse shaper, is used as the elementary unit of a neural net. The reality and a pulse shaper, is used as the elementary unit of a neural net. The reality and a pulse shaper, is used as the elementary unit of a neural net. | Bovementary Froblemy Kibernetiki Storing Modern Froblems of Cyberneties - Goliection of Yorkel, Hoscow, "Kenka," 1970, pp 262-267 collection of Yorkel, Hoscow, "Kenka," 1970, pp 262-267 of the undulating activity Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, unith contains a blocking generator whose frequency is controlled and a pulse sladger, is used as the elementary unit of a neural net. The trolled and a pulse sladger, is used as the elementary unit of a neural net. The fractional activities also also be static characteristics almost regentroles. Inside the fractions of the characteristics almost regentroles.
 | Soveweelenges Froblemy Kibernetiki Stornik (Modern Problems of Opterneties Collection or Yorks). Hencew, "Kenha," 1970, pp. 262-261 Abstract: This paper is devoted to modeling the processes of the unsulsting activity of a neural set. A model of a neuron, unith contains a blocking generator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a resulative the fraction width has a statue characteristic which is almost reperturbation. Itsides the results will be a statue of a statu | Sorpressings Fooling Kiberntiki - Sornik investing Collection or Yorks), Horces, "Neshes," 1970, DD 252-261 Collection or Yorks), Horces, "Neshes," 1970, DD 252-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a nesural set. A model set, he wash, unich contains a blocking grantator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a resural ref. The trolled and applies shaper, is used as the elementary unit of a resural ref. The fraction and the base static characteristic which is alrest regardings. Its static the | collection of Yurks), Hescow, howes, ayou are not the undulating activity Abatraot: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuran, units contains a blocking generator where frequency is controlled and a pulse slader, it used as the abstencing unit of a neural net. The trolled and a pulse slader, to used as the abstencing unit of a neural net. The frequency units almost began that the frequency units almost began to the abstence of the undulating activities. | Abstract: This paper is devoted to modeling the processes of the undulering activity of a neural net. A model of a neuran, unith contains a Macking emperator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a round net. The prolled and a pulse shaper, is used as the elementary unit of a round net. The reason which has a static characteristic built is alrest toper trace. Desides the reason which is alrest toper trace. | Abstract: This paper is devoted to modeling the processes of a neural let. of a neural let. A model of a neuran, which contains a blocking generator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a results here. The trolled and a pulse shaper, is used as the elementary unit of a results here framed and the frequency of a state that the results have a state of the characteristic which is alrest began those. Itselfes the | of a hours, her. A model of a heursh, which contains a blocking generator whose frequency is con- trolled and a pulse shaper, is used as the elementary unit of a reducal ref. The trolled and a pulse shaper, is used to the elementary unit of a reducal ref. The trolled and a pulse shaper, is used to the elementary unit of a reducal the trunch and the base of the elementary trule. The trolled and the elementary trule are truly to the elementary trule.
 | p is understood to mean a decrease in time of the pulse frequently gold leaves to the presents of a continue time; setter. Two wasks is vidual neutron in the presents of a continue; it) elevation of the neutron hing adaptation in a neutron size and the setten; 2) introduction of regulive feedback. Setten; 2) introduction of regulive feedback. Setten; 2) introduction of regulive feedback. Suppare that on the lease of adopting neutrons one can made a securion of pulse batches is "newrob multiluffrator") and constitution of the pulse batches is "newrob multiluffrator") and constitution of the pulse batches is "newrob multiluffrator". | p is understood to mean a decrease in time of the pulse frequently gold light neutron in the presents of a continuant intelling setters. Two wasks is lighted in a neutron are standard: 1) elements of the maurical hing depiction in a neutron are standard. Action: 2) introduction of regality freeback. Action: 2) introduction of regality freeback. 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 | Addition is understood to mean a decrease in time of the pulse. Fewerick gives Addition to understood in the presente of a constant faint setter. The value is by an individual neutron in the presente of a saming: 1) elements of the neutron accomplishing depretation in a severol size azaming: 1) elements of the neutron the jupul action: 2) introduction of regative feedback. the jupul action: 2) introduction of regative feedback. It appears that on the basis of adapting response on model a spontant generator of pulse batches is "neutch autitualization" and positional autituition 1/2 | Addition to understood to mean a decrease in time of the pulse. Teaching position, the interest action, and a second thing the second limit action. The second sign standard: 1) elements of the natural second limits deposition in a second sign standard: 1) elements of the natural the jubil action; 2) introduction of regalive feedback. It is possess that on the heats of adapting reupen one can model a shoutant present or of pulse batches (a "nearth sufficiential") and continue to present or of pulse batches (a "nearth sufficiential") and continue to present or of pulse batches (a "nearth sufficients.") | Addition to understood to mean a decrease in time of the pulse. Teaching particular interpretations of a continuit ingut setter. Teaching so which it is not independent of the results as attained: 1) elements of the results are supported that is revers as attained: 1) elements of the results the input action; 2) introduction of regalive feedback. It is appears that on the basis of admitted results one can model a similar it appears that on the basis of admitted results one can model a similar generator of pulse patrices is "nearth multivalization"; and solutional a satisfication of the pulse patrices is "nearth multivalization"; and solutions as a satisfication of the pulse patrices is "nearth multivalization"; and solutions as a satisfication of the pulse patrices is "nearth multivalization"; and solutions as a satisfication of the pulse particles are supplied to the pulse pulse of the pulse | Addition to understood to mean a decrease in time of the pulse. Frequency gives a fully/idual neutron in the presente of a constant farit setter. The wark of a constant farit setter. The wark of a constant farit setter. The warm is accomplianting deposition in a reverse sign sign state and the input action; 2) introduction of register feedback. The input action; 2) introduction of register feedback. It appears that on the basis of admitted returns one can media a anothing pression of pulse batches (a "neuron multivaturator") and constant a auticultivaturator. | Addition to understood to mean a decrease in time of the pulse. Frequency gives a fully ideal neutron in the present of a constant fart setten. The wark of a constant fart setten. The wark of a constant fart setten for the neutron because it is introduction in several set setten for the neutron the input action; 2) introduction of register feedback. It appears that on the basis of admitted returns one can make a aboution of register feedback of aboution of pulse between is "neuron sufficient and admitted the present of pulse between is "neuron sufficient and admitted that the present of pulse between is "neuron sufficient and admitted that the pulse of pulse between its "neuron sufficient and pulse that the pulse of admitted that the pulse of pulse between its pulse of admitted that the pulse of admitted that the pulse of pulse between the pulse of admitted that the pulse of admitted that the pulse of |
| Redeling the Adaptation of a Meuron and Spontaneous Activity of a Neural Nat" Sorresensys Foblamy Kibernetiki Stornik (Modern Problems of Sterreties Goliection or Yorke). Hencey, "Neuka," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking greenator whose frequency is controlled and a pulse slaver, is used as the elementary unit of a neural net. The trolled and a pulse slaver, is used as the elementary that foreithed the fraction and a pulse slaver, is used as the clementary that of a neural net. The trolled has a static characteristic which is alrest togethicate. | Robotology, A. 3. and SHULLEYN, The A. C. 33 APRA 1411 Robotology is Adaptation of a Neuron and Spontaneous Activity of a Faural Eat* Socrementurys Fooliesy Kibernetiki Stornik (Nodern Froblems of Sterretics Collection of vorkel, Hencow, "Neumas," 1970, pp 252-257 Abstruct: This paper is devoted to modeling the processes of the undulsting activity of a neural net. A model of a neuran, unith contains a blocking emerator whose frequency is controlled and a pulse viacer, is used as the elementary unit of a neural net. The trolled and a static characteristic that is alrest tegers the property of daintificility. | ROLOGION, A. 3. and SHILLEY, Junea, C. 33 APRA 14% Rodeling the Adputation of a Neuron and Spontaneous Activity of a Neural Nat. Rodeling the Adputation of a Neuron and Spontaneous Activity of a Neural Nat. Soveweneys Fooleny Kibernetiki Stornik (Nodern Problems of Sterretics Soveweneys Fooleny Kibernetiki Stornik (Nodern Problems of Sterretics Soveweneys Fooleny Kibernetiki Stornik (Nodern Problems of Sterretics Soveweneys Foolens of Activity Soveweneys Foolens of Activity Soveweneys Foolens of Sterretics Soveweneys Foolens of Sterretics Soveweneys Foolens of Sterretics Soveweneys Foolens of Sterretics Soveweneys Soveweneys Foolens (Nodern Problems of Sterretics Soveweneys | RODOGLOY, A. S. and SHRU, Laborated and Spontaneous Activity of a Marcal Kat Rodeling the Maspation of a Marcal Spontaneous Activity of a Marcal Kat Sovewelneys Froblemy Kibernetiki Stornke (Modern Froblems of Sterreties Sovewelneys Froblems of Sterreties Sovewelneys Froblems and Spontaneous Review, Newsday, 1970, pp 262-267 Collection or worked Hereneys Review, Newsday, 1970, pp 262-267 of a neural het. Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural het. A model of a neural, newsday, units contains a blocking greenector whose frequency is controlled and a pulse shaper, in used as the elementary unit of a course here. The trolled model has a static characteristic which is alread in greened whose. Inside the transcript of disputation. | Anodeling the Adaptation of a Mourou and Spontaneous Activity of a Faunal Est. Sorressingly Froblemy Kibernetiki Stornik (Modern Froblems of Externation Collection or vorke), Hencow, "Newher," 1970, 39 252-257 Collection or vorke), Hencow, "Newher," 1970, 39 252-257 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neural, unith contains a blocking grantator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a neural net. The trolled and a static characteristic that is alrest repertived to fabriticity. | Rodeling the Adaptation of a Perfect and Application of Sterreties Sovewenny's Froblemy Kibernetiki Storiki (Modern Froblems of Sterreties Sovewenny's Froblemy Kibernetiki Storiki (Modern Froblems of Sterreties Sovewenny's Froblemy Kibernetiki (Modern Froblems of Sterreties Sovewenny's Froblems of Young Kibernetiki (Modern Froblems of Sterreties Sovewenny's Froblems of Young Kibernetiki (Modern Froblems of Sterreties Abates of the undulating activity Aba | Soveweenayse Froblemy Kibernetiki Stornik (Modern Problems of Otherwites Collection of Yorkel, Hescow, "Newhea," 1970, pp 252-25] Abstract: This paper is devoted to modeling the processes of the undulsting sciivity of a neural set. A model of a neural, which contains a blocking generator whose
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| Rodeling the Adaptation of a Mouron and Spontaneous Activity of a Neural Nat" Sovewelveys Froblemy Kibernetiki Stornik (Modern Froblems of Sterreties Golfection of Yorkel, Mescow, "Memba," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the undulating activity Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuron, unith contains a blocking generator whose frequency is con- trollyd and a pulse shaper, is used as the elementary unit of a reveal net. The trollyd and a static characteristic which is a static characteri | Roboroloy, A. S. and SHULLEYN, The A. C. S. APPRACED Retained Ret. Roboling the Adaptation of a Housen and Spontaneous Activity of a Housel Ret. Roboling the Adaptation of a Housen and Spontaneous Activity of a Housel Ret. Sovewennys Froblems (Housen 1811 - Stormik (Modern Froblems of Sterreties - Sovewennys Froblems, Hescow, "Names," 1970, pp 262-257 Collection of Yurwal, Hescow, "Names," 1970, pp 262-257 Collection of Yurwal, Hescow, "Names," 1970, pp 262-257 Collection of Yurwal, Hescow, "Names," 1970, pp 262-257 Collection of Yurwal House, White Collection of Names and the suremption, the model possesses the Frenerty of Adaptation of Names and the suremption, the model possesses the Frenerty of Adaptation. | ROLOGION, A. S. and SHULLPY Junea, C. 33 APRA 14% Robbling the Adpuntion of a Neuron and Spontaneous Activity of a Neurol Rat* Robbling the Adpuntion of a Neuron and Spontaneous Activity of a Neurolist Soveressnys Foblemy Elbernetiki Stornik (Nodern Problems of Sterneties Golisetion or Yorke). Hencew, "Neuka," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural set. A model of a neuron, unich contains a blocking emerator unich frequency is controlled and a pulse shaper, is used as the elementary unit of a receipt rath. The trolled and a pulse shaper, is used as the elementary unit of ground rath. The trolled and a statio characteristic unich a sharet forger troub. Inside the respective and the sample of the model posteriors the property of adaptation. | RODOGLOY, A. 3. and SHRL. Laborated and Spontaneous Activity of a Marcal Kat" **Rodeling the Adaptation of a Marcal Spontaneous Activity of a Marcal Kat" **Bovewenny's Froblemy Kibernetiki - Stornik (Modern Froblems of Otherreties - **Boliscition of Yorkel, Hoscow, "Kenka," 1970, pp 262-267 **Boliscition of Yorkel, Hoscow, "Kenka," 1970, pp 262-267 **Bobitson: This paper is devoted to modeling the processes of the undulating activity of a neural net. **A model of a neural, unith contains a blocking emerator which frequency is controlled and a statue characteristic which is alreat ingenity-one and the summation, the model postesses the property of adaptation. | Rodeling the Adaptation of a Mouron and Spontaneous Activity of a Faunch Eat* Bowwareintys Froblemy Kibernetiki Stornik (Modern Froblems of Cyterreties Bowwareintys Froblemy Kibernetiki Stornik (Modern Froblems of Cyterreties Bowwareinty Froblemy Kibernetiki Stornik (Modern Froblems of Cyterreties Bowwareinty Froblemy Froblems | *** Modeling the Adaptation of a Peuron and Adaptation of Sterreties Softwanneys Froblemy Kibernetiki Storik (Modern Froblems of Sterreties Softwanneys Froblemy Kibernetiki Storik (Modern Froblems of Sterreties Softwanneys Froblemy Kibernetiki Storik (Modern Froblems of the undulating activity Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuron, unith contains a blocking emperator which froblems the froblems at the storik of the storik the froblems and the summention, the model postesses the property of adaptation.
 | Soveweeneys Froblemy Kibernetiki Stornik (Modern Problems of Opterreties Collection or Yorks). Hoscow, "NewMee," 1970, DD 252-257 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural het. A model of a neuran, unith contains a blocking generator uncer frequency is controlled and a pulse shaper, is used as the sheeting reference in the contains the processes the property of shapestorn. The frequency and time surposion, the model possesses the property of shapestorn. | Sorrymenupys Foolkary Kibernetiki - Sorria (1970, pp 252-25) Collection of Yorks). Hencew, "Names," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the undulating activity Abstract: This paper is devoted to modeling the processes of the undulating activity Abstract left. A model of a neuron, unich contains a blocking emperator whose frequency is contained and a pulse shaper, is used as the elementary unit of a reach ref. The trolled model has a statio characteristic which is all-met togethers. The state and these surmation, the model posteriors the property of adaptation. | Collection of Yorkis, Hescow, Names, Ayes, as now as a continuous ting activity Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural set. A model of a neural, units contains a blocking emerator which frequency is controlled and a pulse shaper, in used as the elementary unit of a reveal ret. The training and a statue characteristic which is alreat tegentivate, has a statue characteristic which is alreat tegentivate. Destains the processes the property of adaptation. | Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural het. A model of a neuran, unith contains a blocking generator where frequency is controlled and a pulse shaper, is used as the sheeritary unit of a neural het. The trolled and a static characteristic which is a static characteristic | Abstract. This paper is devoted to modeling the processes of a neural net. of a neural net. A model of a neuran, which contains a blocking emerator which frequency is controlled and a pulse shaper, is used as the elementary unit of a newal net. The trolled mude has a static characteristic which is almost logarithes. Inside the reason mudel has a static characteristic which is almost logarithes. The first and time surmation, the model postesses the property of adaptation. | of a neural net. A model of a neuron, unitch contains a blocking generator whose frequency is con- trolled and a pulse shaper, is used as the elementary unit of a mount net. The rearon model has a static characteristic which is almost began those. Insides the rearon model has a static characteristic which is almost began the property of adaptation.
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 | Soveweenny's Froblemy Kibernetiki Stornik (Modern Problems of Opterreties Collection or Yorke). Hescew, "Newhea," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulsting activity of a neural net. A model of a neuron, unith contains a Modeling emerator which frequency is controlled and a pulse shaper, is used as the elementary unit of a reural net. The rearrest has static chroateristic which is almost began its repety of admission, properlies of saces and time surgestion, the model possesses the property of admission properties of saces and time surgestion, the model possesses the property of admission properties of saces and time surgestion, the model possesses the property of admission properties of saces and time surgestion, the model possesses the property of admission properties of saces and time surgestion, the model possesses the property of admission properties of saces and time surgestion. | Governmently Fooling Kiberntiki - Soffik index 1970, pp 252-261 Collection of Yorkel, Mescow, "Nestes, 1970, pp 252-261 Abstract: This paper is devoted to modeling the processes of the unduleting scility as neural set. A model of a neural, units contains a blocking generator units of equancy is contained as pulse shaper, in used as the elementary unit of a reural rest. The restorm model has a state characteristic british and a pulse shaper, is used as the second particular the property of shapes into the property of shapes in the property of the p | Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, unich contains a blocking emerator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a reural net. The trolled and a pulse shaper, is used as the elementary unit of a reural net. The trolled and a pulse shaper is the properties of states and time surrelies to which is almost logarithous. Its time properties of states and time surrelies, the model possesses the property of adaptation properties of states and time surrelies and time states in time of the pulse frequency governed. | Abstract: This paper is devoted to modeling the processes of the undulesting activity of a neural set. A model of a neuron, unith contains a blocking graphitor whose frequency is controlled and a pulse shaper, is used as the elementary unit of a course having the rearrangement of a state characteristic which is allow the personal has the rearrangement of the personal has the properties of shapes and time surgestion, the model possesses the property of shapestion. | Abstract: This paper is devoted to modeling the processes of a neural set. A model of a neural, which contains a blocking generator where frequency is controlled and a pulse shaper, is used as the elementary unit of a resursh ret. The trolled and a pulse shaper, is used as the elementary unit of a resursh ret. The trolled and a pulse shaper, is used as the elementary unit of a request the training and the same static characteristic which is almost ingently and property of adaptation properties of states and time surgicion, the model possesses the property of adaptation properties of states and time surgicion, the model possesses the property of adaptation properties of states and time surgicion. | A model of a neuron, unith contains a blocking generator whose frequency is con-
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Horsey, "Newlas," 1970, 20 252-251 Abstruct: This paper is devoted to modeling the processes of the unvalenting scitvity Abstruct: This paper is devoted to modeling the processes of the unvalenting scitvity A model of a neuron, unlike contains a blocking generator united in events from the process of the process of the state of the success of the state of the success of the state of the | Soveweelenges Froblemy Kibernetiki Stornik (Modern Problems of Opterreties Collection or Yorke). Hencew, "Newhea," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulsting activity of a neural net. A model of a neuron, unith contains a blocking graphitor whose frequency is controlled and a pulse shaper, is used as the elementary unit of a reural net. 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Hereve, "Revide," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neural, net. A model of a neural, net. The trolled and a pulse viacer, is used as the elementary unit of a rounal net. The trolled and a pulse viacer, is used as the elementary unit of a rounal net. The trolled has a static characteristic that already is repertively considerable the respective of shapitation. The state the respective of shapitation and the presented to assume of the pulse frequency contact of the pulse frequency c | Rodeling the Adaptation of a Mourou and Spontaneous Activity of a Faunal Est. Sovewenly a Fooblast Khercetki Stornik (Modern Froblems of Sperreties Solestion of Yorks). Hencew, "Newles," 1970, 39 252-257 Collection of Yorks). Hencew, "Newles," 1970, 39 252-257 Abstract: This paper is devoted to modeling the processes of the undulsting activity of a neural set. 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| Anodeling the Adaptation of a Mourou and Spontaneous Activity of a Faural Est. Sovewentny's Froblesk Kibernetikk Stornik [Modern Frobless of Sterreties Soliection of Works, Moscow, "Kenka," 1970, pp 262-251 Abstract: This paper is devoted to modeling the processes of the undulesting activity of a neural net. A model of a neuron, unith contains a Wooking graphitor whose frequency is controlled and a pulse shaper, is used the elementary unit of a recuest net. The resident as a static characteristic which is almost ingeritable. It has a static characteristic which is almost ingeritable. It has a static characteristic which is almost ingeritable the property of adaptation. 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Soverenmy of Footback Kibernetiki Stornik (Nodern Froblems of Sterreties Collection of Yorkel, Hoscow, "Newles," 1970, pp 262-257 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking emerator which frequency is controlled and a pulse shaper, is used as the elementary unit of a reusal net. The resident has a static observation to the elementary unit of a reusal net. 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1 an | Sorrymenupys Foolkary Kibernetiki - Sorria (1900, pp 202-20) Collection or Yorkel, Hencow, "Namica," 1970, pp 202-20) Abstract: This paper is devoted to modeling the processes of the unduleting activity has tract into a pole of a newson, which contains a blocking gracewise received by a code of a newson, which contains a blocking gracewise received by the slaper, is used as the elementary unit of a newson frequency is contributed by a static characteristic which is alrest reperty of slapitation, represented that surmation, the model postesses the recovery of slapitation. The daily the processes the received by an individual neuron in the presente of a schedulation for the pulse frequency gracewise processes and the complaining static of the pulse frequency gracewise static of the pulse frequency are accomplishing static of the neuron are sourced to a constitute fund services the pulse frequency of the neuron from the insula action; 2) introduction of regulate feedback. | Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, net contains a blocking generator where frequency is controlled and a pulse slader, is used as the elementary unit of a resural net. The trolled and a pulse slader, is used as the elementary unit of a resural net. The trolled and a pulse slader, is used as the elementary unit of a resural net. The trolled and a pulse slader the properties of slader title results of slader title properties of slader title. The slader the slader title slader title pulse frequency sufficient addition is understood to mean a decrease in time of the pulse frequency sufficient by an individual neutron in the presents of a nonzeron title pulse frequency slader to be accomplishing adaptation in a neutron described the first of the matrix from the first activities of the pulse frequency of register freedback. | Abstract: This paper is devoted to modeling the processes of the undulesting activity of a neural net. A model of a neuron, unith contains a blocking emerator which frequency is controlled and a pulse shaper, is used as the elementary unit of a round net. The reason and that a static characteristic builton is almost logaritated. Exists the properties of static characteristic builton is almost logaritated. The Adaptation is understood to sean a decrease in time of the pulse frequency solutions of by an individual neutron in the presents of a constant injury setting. The ways of by an individual neutron in the presents of a constant injury setting adaptation in a neutron set examined: I) elements of the neutron from the jury later of the pulse of the neutron from the jury later of the pulse of the neutron from the jury later of the pulse of the neutron from the jury later of the pulse of the pulse of the neutron from the jury later of the pulse of the pulse of the neutron from the jury later of the pulse of the pulse of the neutron from the jury later of the pulse of the pulse of the neutron from the jury later of the pulse of the pulse of the neutron from the jury later of the pulse of the pulse of the neutron from the jury later of the pulse of the pulse of the neutron from the pulse of the pulse | Abstract: This paper is devoted to modeling the processes of a neural net. A model of a neural, which contains a blocking gracetot which frequency is controlled and a pulse shaper, is used as the elementary unit of a neural net. The trolled has a static characteristic which is alrest repertivate. Inside the respective of shape the projections of shape the projections of shape the summation, the model postesses the projection of shapetation. Adaptation is understood to mean a decrease in time of the pulse frequency postessed by an individual neuron in the presents of adaptation in the presents of a constitute fairly settlem. The ways of by an individual neuron in the presents of a constitute fairly settlem. The ways of the neuron from the insula action; 2) introduction of registive feedback. | A model of a hewar, which contains a blocking graculture which frequency is controlled and a pulse shaper, is used as the elementary unit of a row-ablack. The trolled and a pulse shaper, is used as the elementary unit of a row-ablack the rearon madel has a static characteristic which is abrest regardlock. Insides the representation of shapetsion, the model of the pulse frequency purchased to seam a decrease in time of the pulse frequency purchased and ablation in the presentation in a neutron of a constant intelled statics. The ways of by an individual neutron in the presentation a static of the pulse frequency of a static of the pulse frequency of the pulse frequency of a static of the pulse frequency | It appears that on the basis of adopting reupons one our model a reason of pulse batches (s "nearbh multivathrator") and the their a
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| Rodeling the Maphation of a Mouron and Spontaneous Activity of a Neural Nat" Sovewennys Froblemy Kibernetiki Stornik (Modern Froblems of Sterretics Golfection of Yorkel, Mescow, "Neuka," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the undulating activity as neural net. A model of a neural net. A model of a neuran, unich contains a bio-king generator uncon frequency is used as the elementary unit of a reveal net. The trainen model has a static characteristic which is almost repertivate. Insides the representation in a summation, the model postesses the property of adaptation properties of accase and time summation, the model postesses the property of adaptation by an individual neuron in the presented of a contained intuit setter. The ways of accomplishing adaptation on the presented of a contained in the state of a contained in the presented in the property of adaptation between the neuron state of a contained in the presented in the property of adaptation of the property of adaptation and the state of a contained in the property of adaptation of accomplishing adaptation in the property of adaptation of the property of adaptation of accomplishing adaptation of the property of adaptation of the property | Rodeling the Adaptation of a Neuron and Spontaneous Activity of a Faural Eat* Rodeling the Adaptation of a Neuron and Spontaneous Activity of a Faural Eat* Sorressnoys Fooliesy Kibernetiki Stornik (Nodern Froblems of Sterretics Collection of vorkel, Hencow, "Neuke," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the unsulating activity of a neural net. A model of a neural, unith contains a blocking emerator whose frequency is controlled and a pulse viacer, is used as the elementary unit of a resulative. The troiled and a pulse viacer, is used as the elementary unit of a resulative. The troiled and a pulse viacer, is used as the elementary unit of a resulative. The trained and a static characteristic in the social particle reperiods. Inside the respective of same a decrease in time of the principle of dainstition. Adaptation is understood to mean a decrease in time of the pulse features; the pulse features of a neuron from a neuron from the input action; 2) introduction of regitive feedback. | ROLOGION, A. S. and SHULLEY. Ju. A | RODOGLOY, A. S. and SHRUTCHARMAN, IFFER THE TERM | Rodeling the Adaptation of a Neuron and Spontaneous Activity of a Faunal Est. Soverentinys Fooling Kibernetiki Stornik (Nodern Froblems of Sterretics Collection of Yorks), Horcow, "Neuhes," 1970, 39 262-267 Abstract: This paper is devoted to modeling the processes of the undulsting activity of a neural net. A model of a neuran, unith contains a blocking generator whose frequency is controlled and a pulse slaper, is used as the elementary unit of a round net. The trolled and a pulse slaper, is used as the elementary unit of a round net. The reportion of slapes and time surmation is alrest repertived. Inside the respective of same a decrease in time of the pulse frequency controlled Adaptation is understood to mean a decrease in time of the pulse frequency controlled Adaptation is understood to mean a decrease in time of the pulse frequency controlled accompliating adaptation is neuron as neuron from a succession and the neuron from the limit action; 2) introduction of regitive freedback. | Sovemently Problemy Kibernetiki Store Proposition of Cyterreties Sovemently Problemy Kibernetiki Store Robbert of Cyterreties Solection of Yorkel, Morcow, "Newlas," 1970, DP 252-257 Collection of Yorkel, Morcow, "Newlas," 1970, DP 252-257 Abstract: This paper is devoted to modeling the processes of the unduleting activity Abstract: This paper is devoted to modeling the processes of the unduleting activity A model of a neuron, unith contains a blocking emerator unit of a rough ret. The resident and the summetion, the model paresses the property of adaptation, represent and time summetion, the model paresses the property of adaptation by an individual neuron in the presents of a containt inthis settom. Two wasts of accomplishing seaststian in a neuron are examined: 1) elements of the neuron from the limit settom. The wasts of accomplishing seaststian in source of accomplishing seaststian in source of accomplishing seaststian in source of accomplishing seaststian in a neuron of regitive feedback. | Sovewellings Froblemy Kibernetiki Stornik (Modern Problems of Otherwites of Collection or Yorkel) Mescow, "Newhea," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, net. contains a blocking emerator whose frequency is controlled and a pulse shaper, in used as the elementary unit of a neural net. The tropped and a state characteristic which is alread repertivate. Inside the reason model
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The Modeling the Adaptation of a Mouron and Spontaneous Activity of a March Mat* Sovewentnyle Froblesk Kibernetikk Stornik (Modern Frobless of Sterreties Collection of Workel, Mescew, "Kenika," 1970, pp 245-251 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neural, unith contains a blocking generator whose frequency is controlled and a pulse shaper, in used as the elementary unit of a coursel net. The response and the state characteristic which is allowed the frequency of adaptation, the model postesses the property of adaptation. 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Howeve, "Menhas," 1970, and 252-251 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuran, unith contains a blocking generator when frequency is controlled and a pulse shaper, is used as the elementary unit of a reveal net. The reason madel has a static characterization with its almost regarding distribution and these neuralion, the model postesses the property of adaptation for understood to mean a decrease in time of the pulse frequency of adaptation by an individual memory in a neuron are standing: 1) stressed the input mettern. Two ways of the input mettern in the neuron are standing: 1) stressed the input mettern. Two ways of the input mettern is the neuron are standing: 1) stressed the accomplianting despitation in a neuron of regative feedback. | RODOGLOY, A. S. and SHRILLA-MAN. RODOGLOY, A. S. and SHRILLA-MAN. ROPERSON OF A MARKET CONTROL OF A MARK | Borvesiny is Adpitation of a Mouron and Spontaneous Activity of a Fauncial Est. Sorvesiny's Frobles Kibernetiki Stornik (Modern Frobless of Sterretics Solisation of Yurkel, Hoscow, "Kenika," 1970, pp 262-261 Collection of Yurkel, Hoscow, "Kenika," 1970, pp 262-261 A model of a neural net. A model of a neural, unith contains a blocking greenator which frequency is contrained as pulse slader, is used as the elementary unit of a neural net. The reason model has a static characteristic which is allowed the frequency of adaptation, properlies of accase and time surmation, the model postesses the property of adaptation from the model postesses the property of adaptation by an individual meteron in the second composition of the same of a continued: I) sitemation the second composition of the same of a continued: I) sitemation of the neuron are stational infinite action. 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| Rodeling the Adaphation of a Mourou and Spontaneous Activity of a Faural Eat" Sovewentny's Froblemy Kibernetiki Stornik (Modern Froblems of Sterreties Solection of Yurkel, Hoscow, "Kenika," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural set. A model of a neural, unit: contains a blocking graphitor whose frequency is controlled and a pulse shaper, is used as the elementary unit: of a recurst net. The results and a pulse shaper, is used as the elementary unit: of a recurst net. The results and a pulse shaper, is used as the elementary unit: of a recurst net. The results are a static chrockeristic builton is almost repeated of a recurst of adaptation, properties of states at state of received builton is an entrol pulses in the request of adaptation and accomplishing adaptation in the presente of a control control account action: 2) introduction of regulate feedback. | Robotology A. S. and SHOLIFIX The A. C. 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S. and SHILLFLY The A. C. The Robert of the Market of a Feweral Kat. Robert of the Market of a February Spontaneous Activity of a Feweral Kat. Bovewennys Froblemy Kibernetiki Stornik (Modern Froblems of Sterreties Collection of Workel, Hescow, Kenka, 1970, pp. 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural set. A model of a neuron, unith contains a windowing generator which frequency is controlled and a pulse shaper, is used as the elementary unit of a reural ret. The resonance has state characteristic which is almost began the report of adaptation, properties of states and time surretion, the model patesses the report of adaptation from the purpose of a control action; 71 introduction of a satisfies frequency is contained by an intolled the neuron are statisfied. 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Sovereshings Froblemy Kibernetiki Stornik (Modern Froblems of Sterretics Collection of Yorkel, Hoscow, "Newhea," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, unity contains a blocking generator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a result net. The reside has a static characteristic which is alrest reperiod. Insides the respective of saces and time surrelion, the model placesses the receptive. The daily station is understood to make a function of the pulse frequency softward by an individual neuron in the presents of accuming a leteration of the neuron from the input action; 2) introduction of registive freedback. | Rodeling the Adaptation of a Nouron and Spontaneous Activity of a Faunci Est. Bovenently Froblemy Kibernetiki Stornik (Nodern Froblems of Sterreties Collection of Yorks), Hoscow, "Nouke," 1970, pp 262-227 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a Wooking groupstor whose frequency is controlled and a pulse shaper, is used as the elementary unit of a round net. The resident as a static characteristic which is almost logarithme. The resident has a static characteristic which is almost logarithme. The resident as a static characteristic which is almost logarithme. The dashation of states in time of the pairs frequency concentral by an individual neutron of the samples in the partie of the mairon from the limit action; 2) introduction of magnitud returns one can never a abouting in the last of adaptating returns one can never a aboutinguish | Sovementary Froblemy Kibernetiki Storiki (Modern
Froblems of Sterreties Sovementary Froblemy Kibernetiki Storiki (Modern Froblems of Sterreties Solisation of Yorks), Hoscow, "Newles," 1970, pp 282-221 Collection of Yorks), Hoscow, "Newles," 1970, pp 282-221 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, unith contains a blocking greenator whose frequency is centrained and a pulse viable, is used as the elementary unit of a neural net. 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A model of a neural, unith contains a blocking encertor whose frequency is controlled and a pulse shaper, is used as the stemestary unit of a result net. The trolled and a pulse shaper, is used as the stemestary unit of a result net. The region is subsected to the surreliant owhich is alrest regention. Insides the respective of sastation, the model postesses the property of distinction. Adaptation is understood to make in the property of distinction. Adaptation is understood to make in the property of distinction of the pulse frequency gonerated by an individual neuron in the presence of a continuation of the pulse frequency and the input action; 2) introduction of register freedmack. | Sorresenuys Fooling Kibernikiki - Sorrik (1972), and Edited (1972) Collection of Yorkel, Mescew, "Nestes, 1972, and Edited (1972) Abstract: This paper is devoted to modelling an provide and the underlying activity of a neural net. A model of a neural, unith contains a blocking graphic units frequency is controlled and a pulse shaper, in used as the descendary unit of a round net. The reason added has a static characteristic which is allowed properties of shade and the surretion, the model postesses the property of shallstick, properties of shape and the surretion, the model postesses the property of shallstick, properties of shapes and the surretion of the parties of the parties of the properties of the neutron from the parties of the properties of the neutron from the limit action; 2) introduction of negative freedeath, and the health of shapiting freedeath. | Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural net. A model of a neuran, unich contains a blocking generator where frequency is controlled and a pulse slader, is used as the elementary unit of a recurst net. The trolled and a pulse slader, is used as the elementary unit of a recurst net. The rearem model has a static characteristic outen is alrest reperturbed. Inside the requirements of slagtificing to understood to mean a decrease in time of the pulse frequency sufficient Adaptation is understood to mean a decrease in time of the pulse frequency sufficient by an individual neuron in the presents of accuminate limit sations. They wast of by an individual neuron in the purpose of a scattered; a leteredian of the input action; 2) introduction of regulate freedback. | Abstract: This paper is devoted to modeling the processes of the undulesting activity of a neural net. A model of a neuran, unith contains a blocking graphics units frequency is controlled and a pulse shaper, is used as the elementary unit of a round net. The reason added has a static chroateriatic which is almost reperitude. 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| Bovewennys Froblems Kibernetiki Stornik (Modern Froblems of Sterretics Sovewennys Froblems (Modern Froblems Stornik Anodel of a neural net. A model of a neural net. Adaptation and time summation, the model posterses the property of adaptation, represents of accomplishing destration in a neuron sice standard: I) elements. The wast of accomplishing destration in a neuron sice standard: I) elements of the input action; I) introduction of regitive Freedeach. | Rodeling the Adaptation of a Neuron and Spontaneous Activity of a Faural Eat* Rodeling the Adaptation of a Neuron and Spontaneous Activity of a Faural Eat* Sorressnoys Fooliasy Kibernetiki Stornik (Nodern Froblems of Sterreties Collection of vorke). Hencew, "Neuka," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the unsulating activity of a neural net. 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Hence, "Neuka," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the unsulating activity of a neural net. A model of a neuron, unich contains a blocking entertor which frequency is controlled and a pulse shaper, is used as the elementary unit of a reveal net. The trolled and a pulse shaper, is used as the elementary unit of a reveal net. The trains madel has a static characteristic which is almost report to design additional terrent and the attendance the trains of the pulse feedback the proposition of the present of the pulse feedback. The ways of the input action: 21 introduction of regitive feedback. The static characteristics in a neuron are standard: 11 elements a statiched a constitute attendance. | RODOGLOY, A. S. and SHRULLA-MAN. Woodling the Adaptation of a Mouron and Spontaneous Activity of a Nameal Est* Sovewennys Froblemy Kibernetiki Stornik (Modern Froblems of Observation or Workel), However, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the provesses of the undulating activity of a neural net. A model of a neuran, unich contains a blocking emerator which frotuenty is contained and a pulse shaper, is used as the elementary unit of a neural net. The trolled and a static chracteristic which is alrest ferentivate, besides the reserved has a static chracteristic which is alrest ferentivate the properties of saces and the surestion, the model possesses the graperty of significant properties of saces and the surestion, the model possesses the graperty of significant properties of saces and the surestion of establishing ferentials. The wax of accomplishing destriction is neuron from the input action; 2) introduction of regitive feedback. 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 | Sovewellings Frohlemy Kibernetiki Stornik (Modern Problems of Otherwites of Collection or Yorke), Mescew, "Newhea," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the undulating scility of a neural net. A model of a neural, net. A model of a neural, is used as the elementary unit of a neural net. The troiled and a pulse shaper, is used as the elementary unit of a neural net. The troiled has a statte characteristic which is already the perfect of a facilities the represented that surmation, the policy forcested the property of displation, property of an addition to make and the surmation of the policy forcested in the policy forcested Adiphation; as and the surmations of admittant intell services. The ways of acceptioning destration in the presente of admittant intell services. 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Hencew, "Nemina," 1970, DP 252-25] Abstract: This paper is devoted to modeling the processes of the unministing activity Abstract: This paper is devoted to modeling the processes of the unministing activity Abstract: This paper is devoted to model for processes the street and the same that the processes the properties of the state the processes the transfer the properties of the same and the same pation, the model possesses the property of adaptation properties of the same and the same pation, the model possesses the property of adaptation and processes in the patie for paties for example and the processes in the paties for paties. The ways of accomplishing despitation of the presented of a contact intelligible resistant in a neuron sit same for the input action; I) introduction of regitive feedback. 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| Anothing the Adaptation of a Mouron and Spontaneous Activity of a Neural Eat* Soveweelmys Froblems Kiberneiki Stornik (Modern Froblems of Sterreties date to the second from the stornia of the processes of the undulating activity of a neural net. A model of a neuron, unith contains a blocking generator unith Sterreties and the second nation is almost represented the stornia of the part free the stornia of the second contains and the second of the second stornia of the part free the second second in the second second second second second in the second s | ROLOROLOGY A. S. art SHULLEYS. The Ask of Processes of the underline activity of a reason Eat. Trodeling the Adaptation of a Mouron and Spontaneous Activity of a reason Eat. Sovewentnyle Frobles Kibernetikk Stornik (Modern Frobless of Sterretics Collection of Workel, Moscow, "Kenika," 1970, pp 245-251 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. 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Howeve, "Menha," 1970, and 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuran, unith contains a blocking generator when frequency is con- trained madel has a static choracteristic which is almost regardly net. The regardless and time surmation, the model postesse the property of absticit represents of access and time surmation, the model postesse the property of absticit represents of accessed in time of tree postesses the property of absticit by an individual memory in the presents of a contained limit settom. Two ways of by an individual neutron in a neuron are stationed: 18 appears that on the basis of adapting reurons one earn model a absolutions it appears that on the basis of adapting reurons one earn a satisfained. The property of a station of the property of adapting the devoters a satisfained in the property of a satisfained. | RODOGLOY, A. 3. and SHRILLA-MANA. 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 | Soveweenny's Froblemy Kibernetiki Stornik (Modern Problems of Opterreties Collection or Yorke). Hescew, "Newhea," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulsting activity of a neural net. A model of a neuron, unith contains a Modeling emerator which frequency is controlled and a pulse shaper, is used as the elementary unit of a round frequency is the reason and the surreturnity the model possesses the properties of states the properties of state characteristic which is almost regarding the requests of adaptation properties of state and the surretion, the model possesses the property of adaptation properties of state and the surretion to the pater forewards of contained adaptation of understood to mean a decrease in time of the pater forewards of possesses the properties of the neutron from the input action; 2) introduction of regalite for the laws of the neutron from the input action; 2) introduction of regalite forestands. 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| Anothing the Adaphation of a Mourou and Spontaneous Activity of a Faural Est. Soveweshays Frobles Kibernetikk Stornik (Modern Frobless of Sterreties Soveweshays Frobles Kibernetikk Stornik (Modern Frobless of Sterreties Soveweshays Frobles Kibernetikk Stornik (Modern Frobless of Sterreties Soveweshays Frobles Kibernetik Stornik (Modern Frobless of Sterreties Collection of Workel, Mescey, "Keulas," 1970, pp 262-261 As model of a neuron, unich contains a windering emerator which of several ret. A model of a neuron, unich contains a windering emerator which is several ret. The resolution as withis chracterialis which is almost began the first the resolution of states in the partie of the partie of Adaphation, which is almost an address in the model paressays the Frobless of by an individual neuron in the presents of a monitant interpret of exactly by an individual neuron in the presents of a monitant interpret of the mairon from the input action; 2) introduction of magnified freedoms. 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S. and SHRULLAL AND AND STREET PROBLEMS OF A MARCHA Kat Rodeling the Madaplation of a Meuron and Spontaneous Activity of a Meuron Kat Rodeling the Problems of Sterreties Sovewennys Froblemy Kibernetiki Stornik (Modern Froblems of Sterreties Sovewennys Froblems of Sterreties in the processes of Sterreties Abstract: This source in the purpose of the stornik of a contract interpreties of satisfaction and time surposition in the processes the property of satisfaction and storning satisfaction in a neuron are examined: 1) elementary of the neuron from the input action; 2) introduction of register freedback. 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A model of a neuran, unith contains a blocking emerator unith of a result that training allows a pulse shaper, is used as the elementary unit of a result that training allows and that surmation which is allowed to prove the forecasts the property of absolution from the pulse forecasts of an adaptation of sudershood to mean a decrease in time of the pulse forecasts by an individual neutron to seam a decrease in time of the pulse forecasts by an individual neutron for meaning allows action; 2) introduction of register freedback. The appears that on the basis of adapting meaning one can mean a solutions of the pulse forecasts a solutions of the pulse forecasts a solutions. | Sovewellings Froblemy Kibernetiki Stornik (Modern Problems of Optereties Collection or Yerral, Mescew, "Newhea," 1970, pp. 252-251 Abstract: This paper is devoted to modeling the processes of the unsulsting activity of a neural net. A model of a neuron, unith contains a blocking encertor whose frequency is controlled and a pulse shaper, is used as the stemestary unit of a neural net. The region model has a static characteristic which is almost repertual. Insides the respective of saces and time summation, the model postesses the property of distriction. Adaptation is understood to sean a decrease in time of the pulse frequency gonerated by an individual neuron in the presents of accuminate in the presents of accomplishing adaptation in a neuron are examined: 1 elementary of the nation of the neuron size attained: 1 elements of the nation from the input action; 2) introduction of negative feedback.
 | Collection of Yorkel, Mescew, "Newhea," 1970, 30 252-261 Collection of Yorkel, Mescew, "Newhea," 1970, 30 252-261 Abstract: This paper is devoted to modeling the processes of the unduleting sciivity do a neural net. A model of a neuron, unith contains a blocking greenter whose frequency is controlled and a pulse slader, in used as the elementary unit of a rowel net. The responsed hase a static characteristic which is allowed together the properties of slades and than surrelight on which is allowed together the properties of slades in the Adaptation of surdershood to mean a decrease in time of the pairs for evaluate of year institutional and institution in the properties of accomplishing slatetion in a neuron are standard: 1) elements of the neuron from the limit action; 2) introduction of register fredering one can week a abouting generated of pulse batters in the heats of adapting returned and continued. | Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural net. A model of a neural, unich contains a blocking generator where frequency is controlled and a pulse slader, is used as the elementary unit of a real-short. The trolled and a pulse slader, is used as the elementary unit of a real-short. The trolled has a static characteristic outen is alrest repertively. Desirable the respective of slade and time surphiton the model to partiate the property of sladeticin. Adaptation is understood to mean a decrease in time of the pulse frequency solutions of by an individual neuron in the presents of accuminate inter pulse frequency solutions by an individual neuron in the presents of a monitant interpretation of the neuron from the input action; 2) introduction of regulate freedback. The appears that on the least of adapting neurons one can messal a apositionical generator of pulse batters is "neuron suittivizionical" and contained a adaptivity of pulse batters is "neuron suittivizionical". | Abstract: This paper is devoted to modeling the processes of the undulesting activity of a neural net. A model of a neuron, unith contains a blocking gracefulor unces frequency is controlled and a pulse shaper, is used as the elementary unit of a reural net. The reason which has a static chroateristic which is almost reperituous. Insides the representation of assess and the surrection, the model possessed the acceptancy of adaptation, represents of states in time of the palse frequency concentrated by an individual neutron in the presents of a manifest it is alterestion of the neutron from the incomplishing statestant in a neutron development of the palse of the neutron from the input action; 2) introduction of magnitude freedack. It appears that on the heats of adapting maturing one can measure a apositional generator of pulse batters is displained. | Abstract: This paper is devoted to modeling the processes of a neural net. A model of a new-an, which contains a blocking gracetor which frequency is controlled and a pulse shaper, is used as the elementary unit of a coursel net. The troised and a pulse shaper, is used as the elementary unit of a coursel net. The troised and a pulse shaper, is used as the elementary unit of a coursel net. The raison model has a static churacteriatio which is alread to report by of shapitation, represented to a static of the pulse foregoing governor in the presente of a contained time given the town as a decrease in the relation of the nation from the input action; 2) introduction of registive feedback. The appears that on the least of adapting returns one can messal a apostingous graceful or of pulse batters is "neuroh suittering returns one can messal a apostingous graceful or of pulse batters is "neuroh suittering returns one can messal a aposting one can messal to a position of the pulse of pulse batters is "neuroh suittering returns one can messal a aposting one can messal a aposting one can messal a stitution." | A model of a hewar, which contains a blocking graculture whose frequency is controlled and a pulse shaper, is used as the elementary unit of a course best. The trolled and a pulse shaper, is used as the elementary unit of a course best. The trained madel has a static characteristic which is alrest regardlyon. Insides the respective of shaptation, replective of shaptation, and appearing the season adortests in time of the pulse frequency potented by an individual neuron in the presents of a constant intellight sation. The ways of by an individual neuron in the presents of a constant intellight sation. They was of by an individual neuron in the presents of a constant intellight action; 2) introduction of regular feedback. The input action; 2) introduction of regular feedback. The appears that on the basis of adapting neurons one can messal a apositionism grantly of pulse batteries is "neuroh suitivistic neurons one can messal a apositionism."
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A model of a neuron, unith contains a Morking generator which frequency is controlled and a pulse shaper, is used as the elementary unit of a resural net. The region and a pulse shaper, is used as the elementary unit of a resural net. The region and a base as attic characteristic which is almost recently and a static characteristic builts for the pulse frequency generated that surmation, the model postesses the region of dashitish. Adaptation is suderation to the presente of the surmation of the pulse frequency generated by an individual neuron in the presente of a continuation; a static from the last of adaptation from the input action; 2) introduction of register feedback. The appears that on the lasts of adaptating neurons one can make a accomplishing adaptation at a staticinal generator of pulse bitches is "neuron are staticated" and contained in the present that of the lasts of adaptating neurons one can be appeared to appear that of the pulse feedback. | ROLOGOLOGY, A. S. and SHRILFLY The Ag. C. The Robert of the Market Robert of a Reach Rat. **Robelling the Adaptation of a Marcon and Spontaneous Activity of a Reach Rat. **Boveweshnyle Froblesh Ribernetikl Stornik (Modern Frobless of Sterreties Collection of Workel, Mescew, "Kenka," 1970, pp 262-221 **Boveweshnyle Froblesh Received to modeling the processes of the undulating activity and a model of a neural net. A model of a neural, which contains a Marching graphitor whose frequency is con- trained and a pulse shaper, is used as the elementary unit of a recursh net. The resident and a pulse shaper, is used as the elementary unit of a recursh ret. The resident and a pulse shaper, is used as the elementary unit of a recursh ret. The resident and a pulse shaper, is used as the elementary unit of a recursh of adaptation and activities and time shaper shaper of adaptation with a shaper shaper of the same activities in the pulse frequency of adaptation of the pulse frequency and the shaper shap | RODOGLOVY, A. S. and SHRULLA-MAN. Bovewennys Froblemy Kibernetiki Stornik (Modern Froblems of Sterretics Collection or vurse). Hereow, "Resides," 1970, pp 242-251 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, muich contains a blocking generator whose frequency is con- tended by a static characteristic which is already unit of a resural net. The resident has a static characteristic which is already regentively. Insides the respective of state and time surrelyon, the model placeses the property of disputation, properties of static characteristic which is already regentively. The properties of static characteristic which is already regentively. 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Sovereninys Froblems Kibernetiki Stornik (Nodern Froblems of Sterreties Soliection of Yorks), Hoscow, "Newles," 1970, pp 262-257 Collection of Yorks), Hoscow, "Newles," 1970, pp 262-257 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a Working generator which frequency is controlled and a pulse shaper, is used as the elementary unit of a resush net. The region and a pulse shaper, is used as the elementary unit of a resush net. The region is understock to man a decrease in time of the pulse frequency gonerated Adaptation is substitute numbered to an analysis of the pulse frequency gonerated by an individual neuron in the presents of a continued in the presents of daspitation and accomplishing adaptation in a neuron are examined: 1) elementary that on the pulse frequency is not be input action: 2) introduction of regulate feedback. 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 | Sovewellings Froblemy Kibernetiki Stornik (Modern Problems of Otherwise Collection or Yerral). However, "Newhea," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the undulsting activity of a neural net. A model of a neural, unith contains a blocking emerator whose frequency is controlled and a place shaper, is used as the elementary unit of a reducal net. The trolled and a place shaper, is used as the elementary unit of a reducal net. The reason added has a static characteristic which is abrest reperitive. In states the respective of sace and time surphishor to model pastesses the property of statisticing addition is understood to sean a decrease in time of the pulse frequency subcrated by an individual neuron in the presence of a constant interpretation. Two wash of by an individual neuron in the presence of a constant interpretation. Two wash of by an individual neuron in the purphishing adaptation of magnitude feedback. 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Brid characteria a additional generator of pulse batters is "neuron suitalizations." | of a hours, her. A model of a hourse, which contains a blocking graculture which frequency is can- trolled and a pulse shaper, is used as the elementary unit of a new-all ret. The trolled and a pulse shaper, is used as the elementary unit of a new-all ret. The trolled and a pulse shaper, is used as the elementary unit of a new-all return and the state of the pulse forgerity of shapitation, properties of shapet and time surmetted in the polarisate the fore-pulse forgerity of shapitation. Adaptating is understood to mean a decrease in time of the pulse fore-pulse fore-pulse fore-pulse for the surmetted in the polarisation in a neuron site assained; I) alter-pulse of the nation from the input action; 2) introduction of regalive feedback. The tappars that on the basis of adaptatic frauther are earl each a apparance in the leafs of adaptatic frauthers.
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| Bovewening the Adaptation of a Mourou and Spontaneous Activity of a Naural Est. Boveweninys Froblemy Kibernetiki Stornik (Modern Froblems of Sterretics Solisation of Tornat, Hoscow, "Kenka," 1970, pp 262-251 Abstract: This paper is devoted to modeling the processes of its unduleting activity of a neural net. A model of a neuron, units contains a Monking generator whose frequency is controlled and a pulse shaper, to used as the alementary unit of a resural ret. The region and a pulse shaper, to use dash the intentity unit of a resural ret. The region and a position the modeling the model is alrest repertied. Desired the received the state of statistics and dispersion is understood to sean a decrease in time of the pulse frequency sufficient adaptation is understood to sean a decrease in time of the pulse frequency sufficient was alless that the state of incurrence of a schematic light matter. 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The appears that on the basis of adaptating returns one containing and positional a attaining generator of pulse batters is "neuron and adaptating returns one containing and positions of the pulse of another activities." | Rodeling the Adaptation of a Neuron and Spontaneous Activity of a Faural Est* Rodeling the Adaptation of a Neuron and Spontaneous Activity of a Faural Est* Soveweshing a Fooling Kibernetiki Stornik (Nodern Froblems of Sterretics Solventing a Fooling Kibernetiki Stornik (Nodern Froblems of Sterretics Solventing a Fooling Kibernetiki Stornik (Nodern Froblems of Sterretics Solventing and Fooling Kibernetiki Stornik (Nodern Froblems of Sterretics Solventing Fooling Kibernetiki Stornik (Nodern Froblems of Sterretics Solventing Fooling Kibernetiki Another This paper is devoted to modeling the processes of the undustring activity Another of a neuron, unith contains a broattary unit of a resursh ret. The resons added has a static characteristic that a street reperiods. 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S. and SHRILIPH. The Add Companies of Property of a Faural Eat Tradeling the Adaptation of a Marron and Spontaneous Activity of a Faural Eat Soveweniny's Froblems Ribernetisk Stormik (Modern Froblems of Sterreties Collection of Tutral, Moscow, "Kanka," 1970, pp 265-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a Modeling generator which frequency is used as the elementary unit of a result net. 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A model of a neural, unith contains a blocking gracetator while frequency is controlled and a pulse shaper, is used as the elementary unit of a rounal net. The trolled has a static characteristic which is already the perfect the frequency for sizes the respective of absolution to state the pulse frequency to sizes the represented to man a decrease in time of the pulse frequency position. Adaptation; is understood to man a decrease in time of the pulse frequency position. Adaptation; succeptation and accesses in time of the pulse frequency position. When insulanting adaptation is neuron and examined: 1) elementary to date it was a compilation of measurements. The ways of acceptation of action is neuron from the insulance action; 2) introduction of regitive freedback. 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Soverenmys Froblems Kibernetiki Stornik (Modern Froblems of Otherwise Research Adjustion of Yoursel, Mesces, "Kenka," 1970, pp 262-261 Abstract This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, unich contains a blocking emerator units of several net. The trainen model has a static characteristic which is alreat legentvate. Inside the reason and the summation, the model postesses the 700-2014 of addition to understood to man a decrease in time of the property of adaptation property of the industrial neuron and decrease in time of the pairs of example of the industrial neuron and the property of adaptation becomplishing despitation in securon size staticed: I elements. The ways of accomplishing despitation is neuron at adaptating the feedback. 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Sovewenty's Froblemy Kibernetiki Stornik (Modern Froblems of Otherwise Recew, "Kenka," 1970, pp 265-261 Obligation of Yorkel, Recew, "Kenka," 1970, pp 265-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuran, unith contains a blocking emerator was a frequency is controlled and a pulse shaper, is used as the elementary unit of a reveal net. The trainen midel has a static characterisatio which is almost reperituate. Inside the representation to a summation, the model possesses the property of adaptation of Adaptation is understood to mean a decrease in time of the pulse feature of state and time attended to mean a decrease in time of the pulse feature, Tow was of a committee in the pulse feature of the input action; 2) introduction of regitive feedback. The state of the input action; 2) introduction of regitive feedback. 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 | Sovewellings Froblemy Kibernetiki Stornik (Modern Problems of Otherwites of Collection of Yorke), Hoscow, "Newhea," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the undulating sciivity of a neural net. A model of a neural, unith contains a blocking grownester which frequency is controlled and a pulse shaper, is used as the elementary unit of a course het. The region model has a static characteristic which is advert frequently solves the region model has a static characteristic which is advert frequently of adaptation, represent and time surmention, the model paresses the report of adaptation by an individual neuron and termines of a containt input settem. The waste of accomplishing adaptation in a neuron size standard: I) elements of the neuron from the input action; 2) introduction of regitive feedback. 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Soverenmys Froblemy Kibernetiki Stornik (Modern Froblems of Sterretics - Golfaction of Tornat, Moscow, "Kenka," 1970, pp 262-267 Obstract: This paper is devoted to modeling the processes of the undustring activity of a neural net. A model of a neuran, unith contains a blocking emperator when frequency is used as the sheeterary unit of a reveal net. The trolled and a pulse shaper, is used as the sheeterary unit of a reveal net. The trolled has a static characterial to which is almost the properties of state and time summation, the model postesses the property of adaptation and understood to mean a decrease in time of the pulse frequency observed by an individual neutron for maximum of a capation in the pulse of the property of adaptation to the input action. The wask of the input action. 2) introduction of regative freedback. 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Bovenessing Froblems Kibernetiki Stornik (Nodern Froblems of Sterreties Collection of Yorks), Hoscow, "Newles," 1970, pp 262-227 Abstract: This paper is devoted to modeling the processes of its unduleting activity of a neural net. A model of a neuron, unith contains a Wooking grownitor whose frequency is controlled and a pulse shaper, is used as the elementary unit of a round net. The resident as a static characteristic which is almost regardional base as static characteristic which is almost regardional bases and time sumpation, the model possesses the respective of adaptation. Adaptation is understood to mean a decrease in time of the pulse (respective) generated by an initividual neutron in the presente of a constant injury service. The ways of by an initividual neutron in the presente of a constant injury service. The ways of by an initividual neutron from the input action; 2) introduction of register freedmark. 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Hencew, "Newhea," 1970, pp. 252-251 Abstract: This paper is devoted to modeling the processes of the undulsting activity of a neural net. A model of a neuron, unith contains a blocking emerator whose frequency is controlly and a pulse shaper, is used as the elementary unit of a reduct net. The resident has a static characteristic which is alrest reperiod. Insides the resident has a static characteristic which is alrest reperiod. Insides the properties of state surrelion, the model paresses the property of distilition. Adaptation is understood to mean a decrease in time of the pulse frequency softward by an individual neuron in the presents of accuminate in the property of distilition in a neuron are standard; I) alterestion of the nation from the input action; 2) introduction of regulter freedback. 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Horsev, "Neuron, 1970, pp 262-287 Abstract: This paper is devoted to modeling the processes of the undulsting activity of a neural net. A model of a neuron, unith contains a blocking encertor whose frequency is controlly and a poles shaper, is used as the elementary unit of a reural net. The reason added has a static characteristic that a shreet reperiods. Inside the representation to the properties of shapetion, the model pastesses the properties of shapetion to the presented the static transfer transfer the properties of adaptation to the presented of a satisfact its gainst action. The ways of a social action is also a static of the policy frequency special accomplaining selection to the property of statistic transfer in the least of adaptate feedback. The input action 12 introduction of regative feedback. The appears that on the least of adaptate feedback. The appears that on the least of adaptate feedback. | ROLOGOLOGY A. S. and SHRILIPH. The Add Co. 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Solvemently Problemy Kibernetiki 1970, DP 252-257 Solvemently Problemy Kibernetiki 1970, DP 252-257 Abstract: This paper is devoted to modeling the processes of the unduleting activity are a neural net. A model of a neuron, unith contains a blocking emerator which frequency is contracted has a static characteristic which is almost degrations 200 certains the reserved has a static characteristic which is almost degrative to deaths the reserved has a static characteristic in the model postesses the property of adaptation represents of a manufact limit setter. The wast of by an individual neuron in neuron are examined: 1) elements of the neuron from the input action; 2) introduction of megalive feedback. 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S. and SHRILPY Junea, C. 20 APRA 14%. Robaling the Adplication of a Neuron and Spontaneous Activity of a Neurol Nat. Robaling the Adplication of a Neuron and Spontaneous Activity of a Neurol Nat. Sovewennys Froblemy Kibernetikl Stornik (Nodern Froblems of Sterreties Golfsetion of vorwal, Mescew, "Neuka," 1970, pp 252-251 Abstract: This paper is devoted to modelling the processes of the undulating activity of a neural net. A model of a neuron, unith contains a blocking generator under frequency is controlled and a pulse shaper, is used as the elementary unit of a resural net. The trains madel has a static characteristic butch is almost reperture. The states the properture of states and time summation, the model postesses the property of adplication is understood to sean a decrease in time of the pulse frequency softward by an individual neuron from the presents of a contained in the pulse frequency softward by an individual neuron in a neuron are examined: 1) elements. 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The devoted a absoliance generator of pulse batches is "newrow satisfication." | Sovewellings frohleng Kibernetiki Stornik (Modern Problems of Otherwise Collection or Yorke), However, "Newher," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, unith contains a blocking grownester whose frequency is controlled and a pulse shaper, is used as the elementary unit of a neural net. The region model has a static characteristic which is almost represented that a static characteristic which is almost represented the properties of state and time surmelion, the model pareases the represented of adaptation to understood to seam a decrease in time of pareases the representation for the presented of a contained injury state. The waste of accomplishing despitation of neuron season and injury states. The waste of accomplishing despitation of neuron season and injury states. 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However, "Newlas," 1970, pp 262-261 Soveresenays Froblemy Kibernetikl Stornik (Madern Foothers of Otherstion of Otherstion of Warral, However, "Newlas," 1970, pp 262-261 Soveresenays Froblemy Kibernetikl Stornik (Madern Foothers of Cherreties Collection of Warral, However, "Newlas," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undustried scale of a newest here. A model of a newson, unith contains a blocking generator waves frequency is controlled and a pulse slader, is used as the elementary unit of a course in the research of Maderial of Landistic Company of Maderial of the Maderial of | RODOGLOY, A. S. and SHRILLA-MAN. Proceeding the Madpiation of a Mouron and Spontaneous Activity of a Mouron Eat* Sovewenny's Froblemy Kibernetiki Stornik (Modern Froblems of Otherwise). Sovewenny's Froblemy Kibernetiki Stornik (Modern Froblems of Otherwise). Sovewenny's Froblemy Kibernetiki Stornik (Modern Froblems of Otherwise). 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The weak of the input action; 2) introduction of register feedback. | Borvesinys Froblems Kibernetiki Stornik (Modern Froblems of Sterretics Sorwasinys Froblems Kibernetiki Stornik (Modern Froblems of Sterretics Collection of Turks), Hoscow, "Kenke," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural set. A model of a neuron, unith contains a blocking generator which frequency is used as the elementary unit of a neural ret. 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| Boveweinly frohing Kiberneiki Stornik (Modern Frohiens of Otherreties - Collection of Workel, Mescew, "Knika," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unich contains a blocking generator which frequency is controlled and a pulse shaper, is used as the elementary unit of a neural net. The respect to a static characteristic which is almost regardly and a pulse shaper, is used as the elementary unit of a neural net. The respect to a static characteristic which is almost regardly one is also and the summation, the model possesses the property of shallstich, property of shallstich as a static characteristic which is almost eigenvector of the presents of the property of shallstich, by an individual neuron in neuron are examined: I) elements. The ways of the input action; 2) introduction of register freedback. 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Sovewennys Froblemy Kibernetikl Stornik (Modern Froblems of Operations Collection of workel, Mescow, "Monda," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuran, unich contains a blocking generator whose frequency is controlled and a pulse shaper, in used as the elementary unit of a course love. The response declare a state characteristic which is allowed to proceed the property of absiliation, properlies of about and the surrelegation which is allowed to make a discontaint input action. The ways of warphishing statement of the same of abouting it provides the frequency of salabilities accomplianting adaptation in a neuron are examined: I) elements of the neuron from the junctured appears that on the basis of adapting freedback. It appears that on the basis of adapting freedback. 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pulse batches is fewerth multi-returning? and continual a actioning the present of pulse batches is fewerth multi-returning? | | 222. | | |
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Hereby, "Newlea," 1970, pp 242-251 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, which contains a blocking generator whose frequency is controlled and a pulse slader, is used as the elementary unit of a neural net. The trolled and a pulse slader, is used as the elementary unit of a neural net. The rearned and time surmation, the model parters to reperture the frequency spherized to seas a decrease in time of the pulse frequency spherized datafattion is unearlood to mean a decrease in time of the pulse frequency spherized by an individual neuron in the presents of a moderated light matter. The ways of the nounce of a pulse in the basis of adaptative freedback. Its input action: 21 introduction of registive freedback. 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 | Collection of fortral, Mescew, "Newlas," 1970, pp 22-22 Collection of fortral, Mescew, "Newlas," 1970, pp 22-22 Abstract: This paper is devoted to modelling the processes of the unduleting sciivity of a neural net. A model of a neural, unith contains a blocking generator whose frequency is controlled and a pulse shaper, in used as the elementary unit of a course newlast the reason madel has a state characteristic button is almost regardition. The Adaptation of shapes and time surmation, the model possesses the recovering obscitation frequency of shallstion, reversity of shallstion, the model possesses the recovering obscitation of shapes and time surmation, the model possesses the recovering of shallstion, reversity of shallstion, reversity of shallstion, accompliating statement of season a decrease in time of the pair of requency successful the season advance of accomplianting statement of the process of the neutron from the input action; 2) introduction of register freedback. 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S. and SHOLLEYN, The Add Communication of a Page 14 to Appear to the Appearing of a Faunce East Modeling the Appearing Kibernetikk Stornik (Modern Froblems of Sterreties Collection of Yorkel, Honcow, "Newlea," 1970, pp 262-257 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking emerator which frequency is controlled and a pulse shaper, is used as the elementary unit of a reusal net. The trolled and a pulse shaper, is used as the elementary unit of a reusal net. The region of space and time sumpation, the model possesses the recreative of shapes the representation to make a face and decreated in time of the pulse frequency softened by an individual neuron in the presents of accuminate in the presents of states in time of the pulse frequency softened by an individual neuron in the presents of accuminate it elements. 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Bovenessing Froblems Kibernetiki Stornik (Nodern Froblems of Sterreties Collection of Yorks), Hoscow, "Newles," 1970, pp 262-227 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking grownitor which returned is controlled and a pulse shaper, is used as the elementary unit of a round net. The trolled and a pulse shaper, is used as the elementary unit of a round net. The responsibility and a pulse shaper, is used as the elementary unit of a round net. The responsibility as a static observation to the shapester to gravely the first pulse frequency of adaptation. Adaptation is understood to mean a decrease in time of the pulse frequency softened by an individual neutron in the presents of a continuant intelligible first pulse frequency softened to be an individual neutron in the presents of accuming a leteration of the neutron from the input action; 21 introduction of registive freedback. 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 | Collection or Yerral, Mcscew, "Newhar," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural set. A model of a neural, which contains a blocking emerator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a result set. The trolled and a pulse shaper, is used as the elementary unit of a result set. The results has a static characteristic which is absent reperiods. Insides the results in terminate the properties of sace and time surrelision the model pastesses the properties of sace and time surrelision the model pastesses the property of daintition, and adoptating is understood to sean a decrease in time pulse frequency potential by an individual neutron in the presents of a modelization in a property of a sacrification is also that the individual neutron is neuron and examined: I) alterestion of the nauron from the induct action; 2) introduction of regetive freedback. 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| Bovewenny's Froblems Kibernetiki Stornik [Modern Froblems of Cyterreties Collection of workel, hencey, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulesting activity of a neural set. A model of a neuran, unich contains a working emerator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a recuesh ret. The resident as a static chracteristic which is almost reperituable. Itsides the properties of states at the sampation, the model possesses the property of adaptation, and the sumpation, the model possesses the property of adaptation of successful time of the pairs frequency softened by an intelvidual neutron in the presents of a continuant intelligible frequency softened by an intelvidual neutron in the presents of a continuant intelligible frequency softened to be an adaptation in a seuron size azamined: I elementary the final neutron from the input action; 2) introduction of register freedeach. 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S. and SHRULLAL AND CONTROL OF THE PROPERTY OF A MARCH Kat Rodeling the Madphation of a March Kat Rodeling the Madphation of March Kat Rodeling the Problems of Sterreties Sovermennys Froblemy Kibernetiki Stornik (Modern Froblems of Sterreties Collection of March Recow, Reside, 1970, pp 262-26] Abstract: This paper is devoted to modeling the processes of the undulating sciivity of a neural net. A model of a heavon, unith contains a blocking emerator whose frequency is controlled and a pulse shaper, in used as the elementary unit of a course net. The trolpy and a pulse shaper, is used as the elementary unit of a course net. The trains madel has a static characteristic which is alrest repertively. Inside the respective of shape station, is alrest repertively of shapeticin. 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S. and SHOLLEYN, The Add Communication of a Page 14 to Appear to the Appearing of a Faunce East Modeling the Appearing Kibernetikk Stornik (Modern Froblems of Sterreties Collection of Yorkel, Honcow, "Newlea," 1970, pp 262-257 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking emerator which frequency is controlled and a pulse shaper, is used as the elementary unit of a reusal net. The trolled and a pulse shaper, is used as the elementary unit of a reusal net. The region of space and time sumpation, the model possesses the recreative of shapes the representation to make a face and decreated in time of the pulse frequency softened by an individual neuron in the presents of accuminate in the presents of states in time of the pulse frequency softened by an individual neuron in the presents of accuminate it elements. 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Bovenessing Froblems Kibernetiki Stornik (Nodern Froblems of Sterreties Collection of Yorks), Hoscow, "Newles," 1970, pp 262-227 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking grownitor which returned is controlled and a pulse shaper, is used as the elementary unit of a round net. The trolled and a pulse shaper, is used as the elementary unit of a round net. The responsibility and a pulse shaper, is used as the elementary unit of a round net. The responsibility as a static observation to the shapester to gravely the first pulse frequency of adaptation. Adaptation is understood to mean a decrease in time of the pulse frequency softened by an individual neutron in the presents of a continuant intelligible first pulse frequency softened to be an individual neutron in the presents of accuming a leteration of the neutron from the input action; 21 introduction of registive freedback. 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 | Collection or Yerral, Mcscew, "Newhar," 1970, pp 252-251 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural set. A model of a neural, which contains a blocking emerator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a result set. The trolled and a pulse shaper, is used as the elementary unit of a result set. The results has a static characteristic which is absent reperiods. Insides the results in terminate the properties of sace and time surrelision the model pastesses the properties of sace and time surrelision the model pastesses the property of daintition, and adoptating is understood to sean a decrease in time pulse frequency potential by an individual neutron in the presents of a modelization in a property of a sacrification is also that the individual neutron is neuron and examined: I) alterestion of the nauron from the induct action; 2) introduction of regetive freedback. 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| Bovewenny's Froblems Kibernetiki Stornik [Modern Froblems of Sterreties Collection of workel, hencey, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulesting activity of a neural set. A model of a neuran, unith contains a blocking graphitor whose frequency is controlled and a pulse shaper, is used to be elementary unit of a recuesh ret. The resident as a static characteristic boild is almost ingeritorable. Exists the representation to a static characteristic boild in almost ingeritorable the assumed than a static characteristic before the model possesses the receptable of accomplishing adaptation in a secure of a constant instruction. The ways of by an instruction to the presente of a constant instruction of the input action; 2) introduction of register feedback. 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Rodeling the Madphation of a Meuron and Spontaneous Activity of a Machal Mat* Sovermennys Froblemy Kibernetiki Stornik (Modern Froblems of Sterreties Collection of Workel, Hescow, "Review, 1970, pp 262-26] Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural het. A model of a neural, must be contained a blocking emerator whose frequency is centerly and a pulse shaper, in used as the elementary unit of a rewest net. The responded has a static characteristic which is alrest repertively. Desices the respective of same allocation that is alrest repertively. Desices the respective of same and occasion that represents the property of displication. The succession is understood to make a decrease in time of the police frequency processed by an individual neuron in the presents of a continual limit settem. Two wasts of accomplianing sespection to the neuron of regative feedback. 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Sovementary Problems Kibernetiki Stornik (Modern Froblems of Sterreties Soliection of Yorks), Honcow, "Newles," 1970, pp 262-257 Obstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking generator whose frequency is used as the elementary unit of a reural net. The trained and a pulse shaper, is used as the elementary unit of a reural net. The region less a static characteristic which is alrest repertured. Insides the represented of same along the model postesses the property of dasisticity an individual neuron in the presente of a continual injury at the property of dasisticity by an individual neuron in the presente of a continual injury attent. 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Boveweniny's Froblesh Kibernetikk Stornik (Modern Frobless of Otherreties Collection of Workel, Moscow, "Kenka," 1970, pp 262-221 Abstract: This paper is devoted to modeling the processes of the undulesting activity of a seural set. A model of a neuron, unith contains a Working emerator which frequency is controlled and a pulse shaper, is used as the elementary unity of a recursh ret. The resident and than static characteristic which is almost reperitual. Insides the resident has a static characteristic which is almost reperitual. Insides the respective to search designation for against of the pulse frequency softened to sea and addressed in time of the pulse frequency softened associated inside and inside the pulse of the matrix from the inside action; 2) introduction of registry freedback. 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Whoseling the Adaptation of a Meuron and Spontaneous Activity of a Named Est* Sovewennys Froblemy Kibernetiki Stornik (Modern Froblems of Otherreties Collection of Workel, Hescow, "Renka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, mitch contains a blocking gracetor while frequency is controlled and a pulse shaper, in used as the elementary unit of a mouval net. The trolled has a statte characteristic which is alread together the processes the respective of absolution. Indicate the respective of absolution to the processes in time pulse frequency successful neuron in the presence of a containt input action. The ways of acceptations gracetor to the presence of a containt input action. The ways of acceptations gracetor in the presence of a containt input action. The ways of acceptations action is incured as a satisfied a secondary middle action; 2) introduction of regitive freedback. 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Kibernetiki - 1970, DP 252-257 Solvemently From the Solvement of Sterreties - Collection of Yorks) Horder, "Name," 1970, DP 252-257 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking emerator which frequency is contracted has a static characteristic which is about long representable to the resentable which is about long representable to the processes of a contained the processes of the property of adaptation by an individual neuron in the presentable of a contained their pairs for example, the scomplishing sastestion in a neuron are examined: 1) elements of the neuron from the jount action; 2) introduction of megative feedback. 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| Borvesing the Adaptation of a Mouron and Spontaneous Activity of a Naural Est. Sorvesinys Frobles Kibernetiki Stornik (Modern Frobless of Sterretics Soliection of Turks), Hoscow, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a Modeling graphitor which frequency is controlled and a pulse shaper, is used as the elementary unit of a result net. The resident as attice characteristic which is almost repertual, british the respective of sales attice the neuron, the model posters to represent of dashitish. Adaptation is understood to man a decrease in time of the pulse frequency gonerated by an individual neuron in the presents of a manual first pulse frequency gonerated by an individual neuron in the presents of a manual from the insult action; 2) introduction of registre freedback. The supering that on the least of adaptative freedback. 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| Bovewenny's Froblems Kibernetiki Stornik (Modern Froblems of Sterretics Solection of worms), Hoscow, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking generator which frequency is controlled and a pulse shaper, is used as the elementary unit of a result net. The trolled and a pulse shaper, is used as the elementary unit of a result net. The region is used as the elementary unit of a result net. The region is a static characteristic which is alrest repertured. 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S. and SHRLLAND AND THE PROPERTY OF A MARCH Eat Woodling the Adaptation of a March and Spontaneous Activity of a March Eat Collection of Yorkel, Hoscow, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, which contains a blocking emerator which frequency is controlled and a suite slaper, is used as the elementary unit of a neural net. The trolled and a suite chracteristic which is alrest repertivate, besides the reservoir and the attractivation is the repeated of accesses in time of the processes the stroperty of significant properties of sacca and the samestion, the model paresses the receptive feature of all processes the receptive feature in the presents of a continuation factors. 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| Borvesing the Adaptation of a Mouron and Spontaneous Activity of a Naural Est. Sorvesinys Frobles Kibernetiki Stornik (Modern Frobless of Sterretics Soliection of Turks), Hoscov, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a Modeling generator which frequency is controlled and a pulse shaper, in used as the elementary unit of a request net. The region like a static characteristic which is alrested the properties of shaper, in used as the elementary unit of a request the region is understood to man a decrease in time of the pulse frequency potential Modeling is understood to man a decrease in time of the pulse frequency potentied by an individual neuron in the presence of a continual finds satisfied. 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Woodling the Adaptation of a Mouron and Spontaneous Activity of a Named Est* Sovewennys Froblemy Kibernetiki Stornik (Modern Froblems of Otherreties Collection of Workel, Hoscow, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neural, mitch contains a blocking emerator which frequency is controlled and a pulse shaper, is used as the elementary unit of a neural net. The trolled has a static characteristic which is almost repertivate. Insides the repertive of shapes and them summation, the model postesses the receptly of shapisticing and speciation is understood to mean a decrease in time of the pulse forquency generated Adiphation; as well as more and a decrease in time of the pulse forquency generated by an individual neuron in the presente of a nontimet ingent series. The ways of acceptioning destriction in neuron are established. 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| Borvesing the Adaptation of a Mouron and Spontaneous Activity of a Naural Est. Sorvesinys Frobles Kibernetiki Stornik (Modern Frobless of Sterretics Soliection of Turks), Hoscov, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a Modeling generator which frequency is controlled and a pulse shaper, in used as the elementary unit of a request net. The region like a static characteristic which is alrested the properties of shaper, in used as the elementary unit of a request the region is understood to man a decrease in time of the pulse frequency potential Modeling is understood to man a decrease in time of the pulse frequency potentied by an individual neuron in the presence of a continual finds satisfied. 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| Borvesing the Adaptation of a Mouron and Spontaneous Activity of a Naural Est. Sorvesinys Frobles Kibernetiki Stornik (Modern Frobless of Sterretics Soliection of Turks), Hoscow, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a Modeling graphitor which frequency is controlled and a pulse shaper, is used as the elementary unit of a result net. The resident as attice characteristic which is almost repertual, british the respective of sales attice the neuron, the model posters to represent of dashitish. Adaptation is understood to man a decrease in time of the pulse frequency gonerated by an individual neuron in the presents of a manual first pulse frequency gonerated by an individual neuron in the presents of a manual from the insult action; 2) introduction of registre freedback. The supering that on the least of adaptative freedback. 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suttining generator of pulse batters (a "neuroh Rulling Indication") and qualifications. | Sorrewellings Fooling Kibernetiki - Sorria (1970, pp 252-25) Collection or Yorks), Mcscew, "Newlas," 1970, pp 252-251 Abstruct: This paper is devoted to modeling the processes of the unvalenting activity of a neural net. A model of a neural, unith contains a blocking encerted when frequency is controlled and a pulse shaper, is used as the elementary unit of a reveal net. The trainen model has a static characteristic which is almost beganized in the property of addition, properties of state and time surpation, the model postesses the property of addition, and the surpant of the control in the property of addition, but in the property of addition of the pulse frequency potential decomplishing despitation in a neuron size standard: I) elements of the input action; 2) introduction of register freedeach. 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Hencew, "Newher," 1970, 39 262-267 Abstract: This paper is devoted to modeling the processes of the undulsting activity of a neural set. A model of a heaven, unith contains a blocking emerator whose frequency is controlled and a place shaper, is used as the elementary unit of a resural ret. The trolled and a place shaper, is used as the elementary unit of a resural ret. The resurent acts and time surrelation that it reperties the properties of shapethish. In the properties of shapethish, the model postesses the property of dashitation. 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and continue a auticalization. | Sorrewellings Fooling Kibernetiki - Sorria (1970, pp 252-26) Collection or Yerkel, Mcseew, "Newlas," 1970, pp 252-26) Abstract: This paper is devoted to modeling the processes of the unvalenting activity abstract relative to the state of the model of a newson, unith contains a blocking generator when frequency is controlled and a pulse shaper, is used as the sheetlary unit of a rewest ret. The trained model has a static characteristic which is almost repertively industry the reservoirs and time surmation, the model postesses the property of adaptation, by an individual neutron to mean a decrease in time path of the pulse feedure, Journard Madelating adaptation in a neuron are examined: I) alternation from the input action; 2) introduction of register feedback. 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S. and SHILLEY The A. C. 33 APRA 14". Robaling the Adaptation of a Meuron and Spontaneous Activity of a Meural Eat* Soveresmys Froblemy Kiberreliki Stornik (Modern Froblems of Sterretics Soveresmys Froblemy Kiberreliki Stornik (Modern Froblems of Sterretics Soveresmys Froblemy Kiberreliki Stornik (Modern Froblems of Sterretics Abstract: This paper is devoted to modeling the processes of the unduleting an ended of a neural net. A model of a neuran, unlik contains a bio-wing generator under frequency trained madel has a static characteristic which is almost terretivate. Instance and the surmation, the model postesses the receptive. The properties of accessed in time of the paper state in a decrease in time of the paper is understood to sean a decrease in time of the paper state. Two was accompliating despitation in a neuron are examined: I) elevation of the neuron the input action; 2) introduction of register feedback. The input action; 2) introduction of register feedback. 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S. and SHRLLAND AND TOWN OF THE PROPERTY OF A MARCH Est. Sovewenny's Froblemy Kibernetiki Stornik (Modern Foblems of Otherrevies - Collection of Workel, Mercey, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neural, which contains a blocking emerator while frequency is controlled and a pulse shaper, is used as the elementary unit of a reveal net. The trainen midel has a static characterisatio which is almost logaritode. Insides the properties of access and than surmption, the model postesses the property of adaptation by an individual neuron to the neuron are examined: It almost expectively softened by an individual neuron to the properties of a commission in the properties of the second thing adaptation in a houron are examined: It elements of the input action: 2) introduction of regitive feedback. 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C. 33 APRA 141. **Rodeling the Adaptation of a Fouren and Spontaneous Activity of a Faural Est. **Bovewenly Frobles Kibernetiki Stornik (Modern Frobless of Sterreties **Collection of works), Resear, "Robits, 1970, pp 265-267 Abstract: This paper is devoted to modeling the processes of the unduleting as of a soural set. A model of a hewar, unith contains a blocking generator which is really and a pulse shaper, is used as the elementary unit of a rowest real resummed has a static characteristic which is almost reperitivate. 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Hencew, "Newhea," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the unwileting as of a neural set. A model of a neuran, unith contains a blocking emerator which frequency tripled and a pulse shaper, is used as the elementary unit of a reural retrieval and the static characteristic which is adverse terretrival. Inside properties of static characteristic which is adverse terretrival. Inside the properties of state and time surretion the model possesses the excreptive of state and time surretion of the pulse of requests, and addition is understood to case in time of the pulse of requests by an introduction in the presents of a continual input settors. The ways by an introduction in the presents of a continual input settors. The ways to be input action; 2) introduction of register feedback. The input action; 2) introduction of register feedback. 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 | Collection of Yorkal, Mescew, "Namina," 1970, pp 262-261 Collection of Yorkal, Mescew, "Namina," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating a devoted to model file processes of the undulating a nodel of a neural net. A model of a neuran, unith contains a blocking generator under frequency and a pulse shaper, is used as the elementary unit of a result net. The first many thinks a static characteriatio which is almost reperty of the reperty of a static characteristic which is under the first neuron and containing the model possesse the receiving and reperty of a daughtion of a understood to mean a decrease in most the pulse forequency and analyzing a static of a daughtion of the pulse forequency as a complianting adaptation in a second of against first pulse forequency by an individual neutron are examined: I) elements of the must be input action; 2) introduction of regative feedback. 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| Boveweinly the Adaphation of a Mouron and Spontaneous Activity of a Naural Est. Soveweinly Froblem Kiberneiki Stornik (Modern Froblems of Otherreties Collection of Workel, Hoscow, "Kenika," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuron, unich contains a blooking generator which frequency is contained as pulse shaper, is used as the elementary unit of a moural net. The rearism addel has a static characteristic which is all-set frequency of adaptation, properlies of sacce and the summetion, the model possesses the frequency of adaptation, properlies of sacce and the summetion, the model possesses the frequency of adaptation from the understood to sean a decreate in time of the pairs for evaluate of the saccemplishing statistics in a neuron are examined: I) elements of the neuron from the input action; 2) introduction of register freedback. 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S. and SHRLLA-Manda. Sovewelling the Madpiation of a Mouron and Spontaneous Activity of a Mouron Eat* Sovewelling the Madpiation of a Mouron and Spontaneous Activity of a Mouron Eat* Sovewelliny's Froblemy Kibernetiki Stornik (Modern Froblems of Cyterretics - Golfaction of Yourn), Monday, 1970, pp 262-261 Obstract: This maper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a meuron, unith contains a blocking emperator which frequency is controlled and a pulse shaper, is used as the elementary unit of a reveal net. 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Sorpmenting the Adaptation for a Profession and Profession of Syterreties Sorpmenting Fooling Kibernetiki Storpmentik (Modern Problems of Syterreties Sollection of Yorke), Hencow, "Newlas," 1970, 30 252-267 Abstruct: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuran, unlik contains a blocking generator when frequency is controlled and a pulse slader, is used as the elementary unit of a resulable this relation middle has a state to hardstrained button is almost reperties. The representation of the model postesse the property of adaptation, projectles of slade and time surmation, the model postesse the property of adaptation for understood to mean a decrease in time of the pairst foreversely successed by an intriduct in neutron for measurement of a contained limit matter. 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| Borrementary Froblem Kibernetiki Stornik (Modern Froblems of Citerreties collection of Workel, Mescew, "Kunida," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting as needed of a neural set. 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| Borrementage Troiling the Adaptation of a Mouron and Spontaneous Activity of a Neural Est. Sorrementage Troiling Kibernetiki Stornik (Modern Froblems of Cyterreties Collection of Yorkel, Mescey, "Kenika," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting as neural net. A model of a neuron, unith contains a blocking generator which responses to extend the static characteristic which is almost represented as static characteristic which is almost represented as static characteristic which is almost represented to sean a decrease in time of the paper for evaluate by an individual neuron in the presented of a continuat incit action. The wash by an individual neuron in the presented of a continuat incit action. The wash by an individual neuron in the presented of a continuation of the paper to the input action; 2) introduction of regulate feedback. 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| Bovewenings the Adaptation of a Mouron and Spontaneous Activity of a Naural Est. Sovewenings Froblems Ribernetikk Stornik (Modern Froblems of Externetics Collection of Workel, Moscow, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuron, unich contains a blocking generator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a resush net. The resummented has a static chrockeristic which is almost repertivate. Desides the resummented has a static chrockeristic which is almost repertivate. Desides the representation of staces and time summetted placesses the report of adaptation properties of staces and time summetted in time of the pales frequency governments by an individual neutron in the presents of a manifest it letters the limit setters. 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S. and SHRLLA-Manda. Woodaling the Adaptation of a Meuron and Spontaneous Activity of a Meuron Ext. Bovewennys Froblemy Kibernetiki Stornik (Modern Froblems of Sterretics Collection of Yurwal, Hoscow, "NewMan," 1970, pp 242-251 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuron, unith contains a blocking generator whose frequency is controlled and a pulse shaper, in used as the elementary unit of a round net. The relief has a static characteristic which is already regentively. Insides the relief in a surgetive of shale the properties of shale thing accomplianing searched to mean a decrease in time of the pulse frequency of shaleticin, and a static in the presente of accomplianing searched to mean a decrease in the pulse frequency of shaleticin, by an individual neuron in the presente of accomplianing station. 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 | Sorpmenting the Adaptation for a Profession and Profession of Syterretics Sorpmenting Problems (thereby, "Newlas," 1970, pp 252-261 Collection or Yorke), Horcey, "Newlas," 1970, pp 252-261 Abstruct: This paper is devoted to modeling the processes of the unsulating activity of a neural net. A model of a neuran, unith contains a blocking generator when frequenty is controlled and a pulse shaper, is used as the elementary unit of a resulable that reason model has a static characterization within is almost reperty of abstition, properlies of access and time surmation, the model postesses the recognity of abstition property of understood to mean a decrease in time of the pales for every of abstition of surfaces of a controlled time surround and extension time of the pales for every of abstition by an individual neutron for measurement of the pales of the neutron from the junual action; 2) introduction of register freedback. 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 | Collection of Yerral, Ribernetiki Stornik (Modern Problems of Sterrettos collection of Yerral), Rescew, "Newmen," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the unduleting of a neural net. A model of a neural, unich contains a blocking generator which results and a pulse shaper, is used as the elementary unit of a result net. The trolled and a pulse shaper, is used as the elementary unit of a result net. The trolled and a pulse shaper, is used as the elementary unit of a result net result net a result of the same and the same at the preference of the pulse frequency of the pulse frequency can Adaptation is unsertion to the pulse of the pulse frequency and adaptation is neuron are examined; I sate pulse frequency the input action; I introduction of register freedback. The input action; I introduction of register freedback. 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| Bovewenings the Adaptation of a Mouron and Spontaneous Activity of a Naural Est. Sovewenings Froblems Ribernetikk Stornik (Modern Froblems of Externetics Collection of Workel, Moscow, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuron, unich contains a blocking generator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a resush net. The resummented has a static chrockeristic which is almost repertivate. Desides the resummented has a static chrockeristic which is almost repertivate. Desides the representation of staces and time summetted placesses the report of adaptation properties of staces and time summetted in time of the pales frequency governments by an individual neutron in the presents of a manifest it letters the limit setters. 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S. and SHRLLA-Manda. Woodaling the Adaptation of a Meuron and Spontaneous Activity of a Meuron Ext. Bovewennys Froblemy Kibernetiki Stornik (Modern Froblems of Sterretics Collection of Yurwal, Hoscow, "NewMan," 1970, pp 242-251 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuron, unith contains a blocking generator whose frequency is controlled and a pulse shaper, in used as the elementary unit of a round net. The relief has a static characteristic which is already regentively. Insides the relief in a surgetive of shale the properties of shale thing accomplianing searched to mean a decrease in time of the pulse frequency of shaleticin, and a static in the presente of accomplianing searched to mean a decrease in the pulse frequency of shaleticin, by an individual neuron in the presente of accomplianing station. 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| Borrementary Froblem Kibernetiki Stornik (Modern Froblems of Citerreties collection of Workel, Arceve, "Kenika," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating a neural set. A model of a neural set. A model of a neural set. A model of a neural set. Frollyd and a pulse shaper, is used as the elementary unit of a result return set rates of state chroater, is need as the elementary unit of a result return and has a static chroater, is need on the rate of the processes the properties of states and the assumption, the model postesses the property of advantables in turners of the results by an individual neuron in the presents of a constant input settors. The ways by an individual neuron in the presents of advantable the first settors. The ways by an individual neuron in the presents of a setting the level and the last of the last of the first settors. The ways by an individual neuron in the presents of the neuron are standard. 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 | Collection of Yerral, Ribernetiki Stornik (Modern Problems of Sterrettos collection of Yerral), Rescew, "Newmen," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the unduleting of a neural net. A model of a neural, unich contains a blocking generator which results and a pulse shaper, is used as the elementary unit of a result net. The trolled and a pulse shaper, is used as the elementary unit of a result net. The trolled and a pulse shaper, is used as the elementary unit of a result net result net a result of the same and the same at the preference of the pulse frequency of the pulse frequency can Adaptation is unsertion to the pulse of the pulse frequency and adaptation is neuron are examined; I sate pulse frequency the input action; I introduction of register freedback. The input action; I introduction of register freedback. 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| Bovewenings the Adaptation of a Mouron and Spontaneous Activity of a Naural Est. Sovewenings Froblems Ribernetikk Stornik (Modern Froblems of Externetics Collection of Workel, Moscow, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural net. A model of a neuron, unich contains a blocking generator whose frequency is controlled and a pulse shaper, is used as the elementary unit of a resush net. The resummented has a static chrockeristic which is almost repertivate. Desides the resummented has a static chrockeristic which is almost repertivate. Desides the representation of staces and time summetted placesses the report of adaptation properties of staces and time summetted in time of the pales frequency governments by an individual neutron in the presents of a manifest it letters the limit setters. 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Sovewennys Froblemy Kibernetiki Stornik (Modern Froblems of Sterreties Collection of workel, Hescow, "Kenka," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unich contains a wid-vang emerator which frequency is controlled and a pulse shaper, is used as the elementary unit of a neural net. The reason addition as the lementary unit of a neural net. The reason addition is static chroacteriation which is all-ret frequency of adaptation. From addition of state a static chroacteriation which is all-ret frequency of adaptation from the presents of a continual investment of the neuron seators of the residence of the neuron seators. The ways of by an individual neuron in the presents of adapting received the results of the neuron seators. 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| Borrementary Froblem Kibernetiki Stornik (Modern Froblems of Citerreties collection of Workel, Arceve, "Kenika," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating a neural set. A model of a neural set. A model of a neural set. A model of a neural set. Frollyd and a pulse shaper, is used as the elementary unit of a result return set rates of state chroater, is need as the elementary unit of a result return and has a static chroater, is need on the rate of the processes the properties of states and the assumption, the model postesses the property of advantables in turners of the results by an individual neuron in the presents of a constant input settors. The ways by an individual neuron in the presents of advantable the first settors. The ways by an individual neuron in the presents of a setting the level and the last of the last of the first settors. The ways by an individual neuron in the presents of the neuron are standard. 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Sovewennys Froblemy Kibernetikl Stornik (Modern Froblems of Sterretics - Collection of Yorkel, Mescow, "Manha," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulsting at a model of a neural net. A model of a neural, Mescow, "Manha," 1970, pp 262-261 A model of a static characteristic which is alrest regarding the frequency and a pulse shaper, in used as the elementary unit of a resuesh net. The projective of shape a static characteristic which is alrest regarding the frequency of shape attained to make and a decrease in time of the pulse frequency by an individual neuron in the presents of a modelmant further street, "Two was accomplianing despitation in a neuron are statical in a lateral and a second active and the pulse frequency and the neuron are statical in a static of the pulse that on the basis of adapting regarding and constant further and the input action; I should action; I introduction of regative feedback. 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| Borrementary Froblem Kibernetiki Stornik (Modern Froblems of Citerreties collection of Workel, Arceve, "Kenika," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating a neural set. A model of a neural set. A model of a neural set. A model of a neural set. Frollyd and a pulse shaper, is used as the elementary unit of a result return set rates of state chroater, is need as the elementary unit of a result return and has a static chroater, is need on the rate of the processes the properties of states and the assumption, the model postesses the property of advantables in turners of the results by an individual neuron in the presents of a constant input settors. The ways by an individual neuron in the presents of advantable the first settors. The ways by an individual neuron in the presents of a setting the level and the last of the last of the first settors. The ways by an individual neuron in the presents of the neuron are standard. 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Sovewennys Froblemy Kibernetikl Stornik (Modern Froblems of Sterretics - Collection of Yorkel, Mescow, "Manha," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulsting at a model of a neural net. A model of a neural, Mescow, "Manha," 1970, pp 262-261 A model of a static characteristic which is alrest regarding the frequency and a pulse shaper, in used as the elementary unit of a resuesh net. The projective of shape a static characteristic which is alrest regarding the frequency of shape attained to make and a decrease in time of the pulse frequency by an individual neuron in the presents of a modelmant further street, "Two was accomplianing despitation in a neuron are statical in a lateral and a second active and the pulse frequency and the neuron are statical in a static of the pulse that on the basis of adapting regarding and constant further and the input action; I should action; I introduction of regative feedback. 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 | Collection of Yerral, Ribernetiki Stornik (Modern Problems of Sterrettos collection of Yerral), Rescew, "Newmen," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the unduleting of a neural net. A model of a neural, unich contains a blocking generator which results and a pulse shaper, is used as the elementary unit of a result net. The trolled and a pulse shaper, is used as the elementary unit of a result net. The trolled and a pulse shaper, is used as the elementary unit of a result net result net a result of the same and the same at the preference of the pulse frequency of the pulse frequency can Adaptation is unsertion to the pulse of the pulse frequency and adaptation is neuron are examined; I sate pulse frequency the input action; I introduction of register freedback. The input action; I introduction of register freedback. 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S. and SHRLLLA-Manner and Donnanceus Activity of a Nameal Eat* Sovewenny's Problemy Kibernetiki - Stornik (Modern Problems of Sterretics - Golfaction of works), Modeon, "Konka," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processe of the undutating an of a neural net. A model of a neuron, unith contains a blocking generator units frequency trained and a pulse shaper, is used as the elementary unit of a result for trained madel has a static characteristic butch is almost repertievable. 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Soverenmy of Footland Kithernetiki Stornik (Modern Frobless of Cyterreties Collection of works), Fraces, "Robies," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the undulating as of a neural net. A model of a neuron, unith contains a blocking generator which frequency from and a pulse shaper, is used as the elementary unit of a round return reason and all the shaper, is used as the elementary unit of a round return of a static chroacteristic which is alread regeritions. Inside the properties of state as static chroacteristic which is alread regeritions. Inside the state and the accomplishing statistics in the presente of a constant input action. The ways by an individual mourem in the presente of a constant input action. The ways by an individual mourem in the presente of a leveline of the party of all the property of a statistic fraction of the party of | Rotokolov, A. S. and SHRLIPN the Ad. C. To Appear the Madering the Maderian of a Moreovernay detrivity of a Maural Mat. Sovewernays Froblesy Kibernetiki Stornik (Modern Frobless of Sterretics Gollection of Wurkel, Mescow, "Monday," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the unduleting at recolled and a pulse shaper, is used as the elementary unit of a reural rot. To the recolled has a static characteristic which is almost regarding and the surpeturing the model postesses the properties of sace and the surpeturing the model postesses the property of all properties of sace and the surpeturing the model postesses the property of all postesses the state characteristic which is almost input states. 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and | Abstract: This paper is devoted to modeling the processes of the unduleting at of a neural het. A model of a neural, neural scribing a blocking gracultor under frequency a model of a neural het. Frollys and a pulse shaper, in used as the elementary unit of a coural het. The trop audit has a static characteristic which is alrest regardinate. Inside the projective of shape and time surmetion, he model possesses the projective of an assail and the surmetion has never to the pulse frequency for any adoration to the pulse frequency for Adaptation is understood to mean a decrease in time of the pulse frequency for an individual neuron in a neuron are examined; it is alrest states the surmetion of regative freedback. The limit action: 21 introduction of regative freedback. The input action: 21 introduction of regative freedback. 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Bovemently Froblem Kibersetiki Stornik (Modern Froblems of Cyterreties Collection of works), Hoscow, "Kenka," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the undulating as of a neural net. A model of a neural, which contains a blocking generator which frequency trolled and a pulse shaper, is used as the elementary unit of a result net. The trained has a static chroacteristic which is almost regeritools. Inside the properties of state as state chroacteristic which is almost reperty of adaptation of states and time sumption, the model postesses the property of adaptation is understood to sean a decrease in time of the pairs for evaluate by an individual neutron in the presente of a continuat inter state. The ways by an individual neutron in the presente of a continuation of the pairs of the neutron are examined: I) elements of the neutron are examined: I) elements of place the hasts of adaptive freedoms. 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Research, "Newmen," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the unduleting as of a neural set. A model of a neuron, unith contains a blocking generator which frequency trained and a pulse shaper, is used as the elementary unit of a result network frequency and the statle characteristic which is alrest tegenitate. Its ideal properties of state as attile characteristic which is alrest tegenitate. Its ideal properties of state as a manual distance of the pulse frequency gon Adaptation is understood to man a decrease in time of the pulse frequency gon Adaptation is understood to man a decrease in time of the pulse frequency gon Adaptation is understood to make the composition of adaptation of the pulse frequency as the input action; 2) introduction of magnitude freedmank. It appears that on the lasts of adaptate freedmank and it appears that on the lasts of adaptate freedmank. 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Soveresmyly Froblemy Kibernetiki Stornik (Modern Froblems of Operation of Sterreties Collection of Warrel, Mescow, "Manika," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating scility of a neural het. A model of a neural, unith contains a blocking generator whose frequency is controlled and a pulse shaper, in used as the eleventary unit of a coursel net. 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Sovewelling the Adaptation of a Mouron and Spontaneous Activity of a Mouron Eat* Sovewelling the Adaptation of a Mouron and Spontaneous Activity of a Mouron Eat* Sovewelling the Adaptation of a Mouron and Spontaneous Activity of a possible of Sterre ties Sovewelling in Activity in the contains a Stocking experitor which frequency is con- trolled and a pulse shaper, as used as the elementary unit of a reveal net. The trolled and a pulse shaper, as used as the elementary unit of a reveal net. The trolled has a static characterisation which is all-most frequency and ties attended to the activity of the pulse frequency of adaptation, the injurity as a static characterisation which is all-most frequency potential Maptation is understood to mean a decrease in time of the pulse frequency potential Machianing adaptation in a insurent are assumed: I) alterestian of the neutron from the input action; 2) introduction of register freedback. 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S. art SHOLISTA The Act of Apparent Activity of a Faural Est. **Rodeling the Adaptation of a Mouron and Spontaneous Activity of a Faural Est. **Bovewennyly Frobles Kibernetiki Stornik (Modern Frobless of Sterreties Collection of works), Mescew, "Monika," 1970, pp 265-261 **Abstract: This paper is devoted to modeling the processes of the undulating as of a neural net. 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 | Sovewelly Fooleny Kibernetiki Stornik (Modern Problems of Cyterretics Collection of Yorke), Hoscow, "Newhea," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulsting of a neural net. A model of a neural, which contains a blocking gracetter whose frequency trolled and a pulse shaper, is used as the elementary unit of a country trolled has a static characteristic which is about the period to the properties of states the properties of states and than surmption, the model postesses the property of all properties of states and the surmption, the model postesses the property of all states and the surmption in the property of all states are partied. The property of all postesses the property of all the properties of a containt input section. 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Soveresmyly Froblemy Kibernetiki Stornik (Modern Froblems of Operation of Sterreties Collection of Warrel, Mescow, "Manika," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating scility of a neural het. A model of a neural, unith contains a blocking generator whose frequency is controlled and a pulse shaper, in used as the eleventary unit of a coursel net. 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S. art SHOLISTA The Act of Apparent Activity of a Faural Est. **Rodeling the Adaptation of a Mouron and Spontaneous Activity of a Faural Est. **Bovewennyly Frobles Kibernetiki Stornik (Modern Frobless of Sterreties Collection of works), Mescew, "Monika," 1970, pp 265-261 **Abstract: This paper is devoted to modeling the processes of the undulating as of a neural net. 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Robeling its adaptation of a Memoral and Spontaneous Activity of a Neural Eat* Soverementy's Froblemy Kibernetiki Stornik (Modern Froblems of Sterretics Collection of Wurkel, Mescow, "Memba," 1970, pp 245-267 Abstract: This paper is devoted to modeling the processes of the undulating at a neural het. A model of a neural, units contains a blocking generator whose frequency trained and puts shaper, in used as the stenentary unit of a resuest retained and class a state characteriatio which is almost regarding. Designs and the stenentary unit of the processes the frequency of Adaptation of suderstated to eath a document in the frequency and Adaptation is understood to mean a decrease in citize of the pair of requency and another is understood to mean a decrease in the frequency and apparation of users a decrease in the frequency and apparation of the state of adaptation of the pair of the pair of the murrous of the input action; 2) introduction of regative freedback. 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S. art SHOLIFIX The Advance of APPAN 1410 **Roboting the Adaptation of a Moron and Spontaneous Activity of a Faunce Eat* Soveresinyly Froblems Kibernetiki Stornik (Modern Froblems of Sterretics Collection of Turkel, Mescey, "Monika," 1970, pp 262-261 Abstract: This paper is devoted to modeling the processes of the undulating activity of a neural set. A model of a neuron, unich contains a blooking emerator which receives the resolution and soulse shaper, is used as the elementary unit of a mount net. The resolution of a suite characteristic units in a first hegeritose. 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Hence, "Newles," 1970, pp 262-267 Abstract: This paper is devoted to modeling the processes of the unduleting activity of a neural net. A model of a neuron, unith contains a blocking generator whose frequency is con- trainen model has a static characteristic which is almost reperty of adaptation. From model has a static characteristic which is almost reperty of adaptation. From model has a static characteristic which is almost reperty of adaptation. From model has a static characteristic which is almost reperty of adaptation. From model has a static characteristic which is almost con- trained and time surmalion, the model postesses the Frozerty of adaptation. From the station is a neuron are examined: I) elevation of the moment from the input action; 2) introduction of regative feedback. 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A model of a neural, which contains a blocking generator which frozund the training and a pulse shaper, in used as the elementary unit of a reveal ret. I trolled and a pulse shaper, in used as the elementary unit of a set training addition and time attention of high a statute characteristic which is almost free pulse foregardly of a Adaptation is understood to mean a decrease in time of the pulse foregardly of a Adaptation is understood to mean a decrease in time of the pulse foregardly of a seconditioning adaptation in a neuron sic standard of a leteration of the secondition and the secondition of the pulse foredack. 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"neverth suitarization" and positive a should be presented to pulse batches is "neverth suitarization" and positive in the presented and the presente | Collection of Yorkal, Mcscew, "Newlea," 1970, DD 252-251 Collection of Yorkal, Mcscew, "Newlea," 1970, DD 252-251 Abstract: This paper is devoted to modeling the processes of the undulating as of a neural net. A model of a newson, unith contains a bio-king generator which frequency trained and a pulse shaper, is used as the elementary unit of a rewest ret. Trained madel has a static characteristic which is almost repertively the reason madel has a static characteristic which its properties of the properties of the same and time surpsition, the model poissesses the property of all properties of the understood to mean a decrease in time of the pulse ferretively. 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The appears that on the basis of adaptatic feathers are even model a action of pulse batches is "neuron multi-unitarity" and constitution of pulse batches is "neuron multi-unitarity" and constitution. | Abstract: This paper is devoted to modeling the processes of a house better which requests of a house better which requests a feed of a newbon, which contains a blocking emerator which is trained and a pulse shaper, is used as the elementary unit of a read het. I trained madel has a static characterisatio which is alread tegrallouble. Dates from added has a static characteristic by model postesses the property of adaptation of understood to same a decrease in time postesses the property of adaptation to understood to same a decrease in time postesses the past requests by an individual neutron in permeasure of a canalizati input section. 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USSR

VDC 621.371.029.55

BENEDIKTOV, Ye. A., GETKANTSEV, G. G., YEZHOV, A. I., KOROBKOV, Yu. S., MALYSHEV, S. K., MATYUGIN, S. N., MITYAKOV, N. A., SAZONOV, Yu. A., CHERNOV, V. A., BEN'KOVA, N. P., BEREZIN, Yu. M., BUKIN, G. V., KOLOKOLOV, L. Ye., and PEREKHVATOV, Yu. K.

*Results of an Experiment in Shortwave Radic Propagation"

Moscow, V sb. X Vses. konf. po rasprostr. radiovoln. Tezisy dokl. Sekts. 3. (Tenth all-Union Conference on the Propagation of Radio Waves; Report Theses; Section 3—collection of works) "Nauka," 1972 pp 73-76 (from RZh--Radiotekhnika, No 10, 1972, Abstract No 10A367)

Translation: Results of experiments on investigating the characteristics of wave propagation in the decameter range (5.7-15.0 IHz) are analyzed; the communications took place between the following magnetically adjacent points: an ionospheric station in Gor'kiy and two science research ships in the Indian Ocean. In particular, the possibility of communication over the Peterson beam was estimated. Two illustrations, bibliography of one. N. S.

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UDC: 537.521

KAGAN, Yu. M., KOLCKOLOV, N. B., LYAGUSHCHENKO, R. I., MILENIN, V. M., and MIRZABEKOV, A. M.

"Investigating the Electron Distribution Function in Hg+Ar and Hg+Kr Mixtures"

Leningrad, Zhurnal Tekhnicheskoy Fiziki, vol. 41, No. 4, April 1971, pp 714-719

Abstract: The measurements made in this article were of the energy distribution of electrons in the positive column of discharges in gases mixing mercury vapor and inert argon and krypton. Such measurements are of practical interest. Because difficulties measurements are of intense noise, in making these measurements are seast the result of intense noise, in making these measurements the authors used a tracking probe through which the effect of the space potential variations on the measurement of the distribution function can be eliminated. The measurements were made in a tube measuring 35 mm in diameter with an incandescent cathode. Curves of the distribution are plotted. A comparison

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KAGAN, et al, Zhurnal Tekhnicheskoy Fiziki, vol. 41, No. 4, April 1971, pp 714-719

was also made of the experimental distribution functions and the functions calculated from the kinetic equation. The estimates made indicate that elastic collisions of electrons and the mercury atoms are negligible compared to the elastic collisions with the inert gas atoms. The authors are associated with the Leningrad State University, imeni A. A. Zhdanov.

2/2

- 105 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

UDC 537.525 : 546.292

USSR

KAGAN, YU. M., KOLOKOLOV, N. B., and MILENIN, V. M.

"Electrical and Optical Measurements in Moving Striations in Neon. In

Leningrad, Optika i Spektroskopiya, Vol 29, No 6, Dec 70, pp 1041-1044

The article describes results of a study of the electrical and optical parameters of moving striations in neon. Such studies permit quantitative elucidation of the pattern of excitation and ionization in moving striations with allowance for the specific character of the electron distribution. An earlier article by the authors described a method making it possible to measure the energy distribution of electrons in moving striations. The present article uses this method to measure the energy distribution of electrons in different phases of moving striations in a neon discharge in a tube with a 2.5-cm radius at a pressure of 0.75 torr and discharge currents of 120 and 200 ma, with the strata length 17 and 18 cm respectively. - 92 -1/1

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Magnetohydrodynamics

USSR

TUDG 533.933

KAGAN, YU. M., KOLOKOLOV, N. B., MILENIN, V. M., MIRZABEKOV, A. M., Leningrad State University

"Measurement of the Energy Distribution of Electrons in a Plasma in the Presence of Noise"

Leningrad, Zhurnal Tekhnicheskoy Fiziki, Vol 40, No 5, June 1970, pp 1319-1321

Abstract: Serious difficulties caused by fluctuations in the discharge for plasma diagnostics generally and probe diagnostics in particular are examined. It is noted that the sensitivity and, in certain cases, the applicability of the probe method are considerably limited by the intensity of discharge noises. The effect of noises on a technique using modulation of the probe current to study electron distribution is said to be a masking of the signal of the second derivative on the one hand and a distortion of the shape of the distribution itself of the other, due to oscillations in the potential of the space where the probe 1/3

USSR

KAGAN, YU. M., et al, Zhurnal Tekhnicheskoy Fiziki, Vol 40, No 5, June 1970, pp 1319-1321

is located. The "tracking" probe method is proposed for measuring the energy distribution of electrons in the presence of noise. The authors showed earlier that to obtain the real averaged distribution function in the presence of periodic plasma fluctuations the variable component of the potential of the measuring probe must "track" the space potentials. The following principle was used for measurements in a plasma in the presence of oscillations: a reference probe at the potential of the floating probe was placed close to the measuring probe. The change in the floating potential of this probe caused by oscillations of the plasma is transmitted to the circuit of the measuring probe. In the experiments described, an emitter follower with the following characteristics was used: input resistance 1 mm, output resistance 5 w, transmission band 30-600,000 Hz. The SK-4-3 spectral analyzer was used to analyze the spectrum and the amplitude of the noises. The energy distribution of electrons in a mercury-argon mixture at a mercury vapor pressure of 2.5.10-3 torr and an argon pressure of 0.6 torr was measured for a discharge current of 100 ma. The spectrum of oscillations between 2/3

- 92 -

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USSR

KAGAN, YU. M., et al, Zhurnal Tekhnicheskoy Fiziki, Vol 40, No 5, June 1970, pp 1319-1321

the measuring probe and the ground before and after inclusion of the emitter follower is given. It was shown that the application of the tracking probe method makes it possible to measure the distribution function in a plasma in the presence of noises when the use of the ordinary method leads to erroneous results.

3/3

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UDC 547.345+543.422.4

USSR

KOLOKOL'TSEVA, I. G., CHISTOKLETOV, V. N., and PETROV, A. A., Leningrad Technological Institute imeni Lensovet

"1,3-Bipolar Addition to Unsaturated Compounds: XXV. Dipolarophilic Activity of Organophosphorus and Organosilicon Unsaturated Compounds With 1,3-Bipolar Systems"

Leningrad, Zhurnal Obshchey Khimii, Vol XL, No 12, Dec 70, pp 2618-2622

Abstract: Since any conjugation will increase dipolar ophilic activity of multiple bonds in the reactions with 1,3-dipolar systems; it was attempted here to establish the effect of organosilicon and organophosphorus substituents on dipolar ophilic activity of multiple bonds, using the method of competing reactions.

It was shown that in the case of diphenylnitrilimine, the rate of addition increases with increasing electrophilicity of the double bond of the compounds investigated. The N-oxide of benzonitrile, the variation in dipolariphilic activity in the dipolariphiles studied is inadequate for their activity in reactions with diphenylnitrilimine.

UNCLASSIFIED

PROCESSING DATE--13NOV70

1/2 TITLE--1.3.DIPOLAR ADDITION TO UNSATURATED COMPOUNDS. XXIII. REACTIONS OF ALPHA, BETA, UNSATURATED PHOSPHINES WITH DIPHENYLNITRILIMINES -U-AUTHOR-(03)-KOLOKOLTSEVA, I.G., CHISTOKLETOV, V.N., PETROV, A.A.

COUNTRY OF INFO--USSR

017

SOURCE--ZH. BOSHCH. KHIM. 1970, 40(3), 574-8

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DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1366

STEP NO--UR/0079/70/040/003/0574/0578

CIRC ACCESSION NO--APO128767

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

PROCESSING DATE--13NOV70 UNCLASSIFIED 2/2 017 CIRC ACCESSION NO---APO128767 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. REFLUXING AN EQUINOLAR MIXT. OF PH SUB2 PCH:CH SUB2, 1,5, DIPHENYLTETRAZOLE, AND ET SUBB N. HCL IN MESITYLENE 3 HR GAVE 66PERCENT I. M. 235-7DEGREES. PH SUB2 PC TRIPLE BOND CH AND PHNHN: CCLPH WITH ET SUB3 N-C SUB6 H SUB6 GAVE AFTER I DAY AT ROOM TEMP. AND 1-2 HR ON A STEAM BATH, 98PERCENT II (R EQUALS H), H. 244-5DEGREES: SIMILARLY WERE PREPD. II (R EQUALS ME), M. 243-5DEGREES, AND II (R EQUALS PHI M. 150-2DEGREES. II, R EQUALS H AND SPERCENT AQ. KOH GAVE 73PERCENT PH SUB2 P(0)CH:CHNPHN:CHPH (III) M. 214-15DEGREES. SIMILARLY TO I WAS PREPD. SOPERCENT PH SUB2 P(0) (CH SUB2) SUB2 NPHN: CHPH, M. 184-5DEGREES, WHEN PH SUB2 PCH: CH SUB2 AND DIPHENYLNITRILIMINE WERE ALLOWED TO REACT IN THE PRESENCE OF CONTRULLED AMT. OF H SUB2 O. III WAS HYDROGENATED OVER RANEY NI IN ETCH TO 68.9PERCENT PH SUB2 P(O) (CH SUB2) SUB2 NHPH (IV), M. 132-40EGREES. REFLUXING PH SUB2 P(D)CH:CH SUB2 WITH PHNH SUB2 AND PHNH SUB2 . ZHCL 5 HR GAVE SOPERCENT IV, M. 132-4DEGREES. REACTION OF PH SUB2 PCH:CH SUB2 WITH PHCCL:NNHPH AND ET SUB3 N AT ZODEGREES 3 HR GAVE GOPERCENT I; WITH 2 MULES PH SUBZ PCH:CH SUB2 THIS ROSE TO BEFREENT, WHILE WITH 2 MOLES ET SUBE N IT ROSE TO TRPERCENT, DECREASE OF PROPURTION OF ET SUB3 N OR ITS ELIMINATION CAUSED A SHARP DECLINE OF THE YIELD. THIS SUPPORTS THE REACTION MECHANISM IN FACILITY: LENINGRAD. TEKHNOL. WHICH THE PRIMARY PRODUCT IS V. INST. IM. LENSOVETA, LENINGRAD, USSR.

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BIOLOGY Agriculture

USSR

UDC 633.311:631.53.027.3

KOLOKOL'ISEVA, L. S, and PROKOF'YEV, M. K., Tashkent Agricultural Institute and Tashkent Polytechnical Institute

The Effect of Ultrasound on the Germination of Blue Alfalfa Seeds"

Moscow, Selektsiya i Semenovodstvo, No 1, 1971, pp 59-60

Abstract: Treatment of "hard" alfalfa seeds with ultrasound is simpler and more effective than mechanical, thermal, or chemical methods of increasing the germination rate and ensuring even stands. "Hard" seeds differ from ordinary ones in possessing a tough coat that prevents water or air from entering, thus delaying germination for a long time. Four varieties (Bostandykskaya, Baknmul'skaya, Iokmanskaya mestnaya, and Semirechenskaya mestnaya) were exposed from 1 to 10 min to ultrasound (1.5 to 2.75 w/cm²), and then grown under different soil and climatic conditions. The effects of ultrasound were varied. One variety (Tokmakskaya mestnaya) required a long period of exposure and high intensity, another required a long period but a lower intensity (Bostandykskaya), while the other two (Bakhmal'skaya and Semirechenskaya mestnaya) required both a brief exposure and low intensity of ultrasound. Exposures for 10 minutes or more were injurious to all the seeds.

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USSR

UDC 621.039.3

KOLOKOL'TSOV, N. A., MINENKO, V. P., NIKOLAYEV, B. I., SULABERIDZE, G. A., and TRET YAK, S. A.

"Constructing Cascades for Separating Multicomponent Isotope Mixtures"

Moscow, Atomnaya energiya, Vol 29, No 6, Dec 70, pp 425-429

Abstract: At present, there is a great deal of interest in separation of isotope mixtures and consequently in the theory of building separating multicomponent cascades, with the requirement that isotopes of intermediate mass as well as those of extreme mass be separated. Nothing that the difficulty in designing these cascades is that the concentration of intermediate-mass isotopes tends to be a maximum inside the cascade, the authors discuss systems of continuous profile cascades for separating isotopes of intermediate mass, and the simulation of these cascades by actual flows consisting of constant-flow sections. The five steps required for this simulation process are outlined, and the modeling of a continuous profile cascade for the separation of tungsten isotopes, in the form of the gaseous compound WF6, is given as an example.

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APPROVED FOR RELEASE: 09/17/2001

USSR UDC 619:616.9-022.7+636.2+636.3+636.4+636.52/.58

ISLAMOV, R. Z.; IOGANSON, T. N.; KOLOMAKIN, G. A.

"Dogs as Possible Sources of Brucellosis on Swine-Breeding Farms"

Tr. In-ta Krayev. patol. KazSSR (Works of Institute of Regional Pathology of the Kazakh SSR, No 20, 1970, pp 17-20 (from RZh-58. Zhivotnovodstvo i Veterinariya, No 4, Apr 71, Abstract No 4.58.632)

Translation: Epizootiological analysis of a swine-breeding establishment threatened with brucellosis was performed. It was concluded that at such a focus, dogs might be contaminated with Br. suis and apparently can transmit the latter to susceptible sows.

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REMENTSOVA, M. M.; KOLOMAKIN, G. A.

"Problems of Brucellosis Epidemiology in Connection With Brucella Migration"

Tr. In-ta Krayev. patol. KazSSR (Works of Institute of Regional Pathology of the Kazakh SSR, No 20, 1970, pp 10-16 (from RZh-58. Zhivotnovodstvo i Veterinariya, No 4, Apr 71, Abstract No 4.58.631)

Translation: Migration of the goat-sheep form of brucellosis to cows was observed in some zones of the Kazakh Republic where cows and sheep and goats use common seasonal pastures and water supplies. In such cases, foci of an epidemic nature are formed, which complicates the fight against the infection.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

Abstracting Service: Ref. Code: INTERNAT. AEROSPACE ABST 5-70 UR0208 Use of the Monte Carlo method to calculate the risk of exceeding a given dose of solar flare protons (Primenanie metoda Monte-Karlo dlia vychisleniia riska prevyshiinlia zadannoi dozy protonov solnechnykh vspyshek). V. L. Generozov, V. L. Kolomenskii, V. G. Kuznetsov, and V. A. Sakovich. Enurnal Vychislitel'noi Matematiki i Matematicheskoi Finiki, vol. 10, Jan. Feb. 1970, p. 247-250. 10 refs. In Russian. Galculation of the radiation hazard presented to space vahicles by proton fluxes from solar flares, using the Monte Carlo method. An estimate is made of the probability of exceeding a given dose of solar flare protons. The distribution of the flares in time is simulated on a computer. At appropriate stages of the simulation the techniques of importance sampling and analytical averaging are apolied. REEL/FRAME 12 19781537

USSR UDC: 621.391,2:621.371.1(088.8)

YUSHKOV, H. F., KOLOMENTSEVA, T. I., YAROSHENKO, V. V.

"A Cycle and Channel Synchronization Device for an Equal-Accessibility Multiple-Channel Radio Communications System"

USSR Author's Certificate No 259136, filed 3 Oct 67, published 23 Apr 70 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 1A258 P)

Translation: This patent covers a cycle and channel synchronization device for an equal-accessibility multiple-channel radio communications system. The device consists of a phase discriminator, cadence pulse shaper, oscillator, cycle synchronization signal decoder, channel distributer, selector and multiplexer. To ensure independent synchronization of one receiver or a group of receivers simultaneously from different transmitter signals arriving with different time delays, the device incorporates the following modules: 1) an independent synchronization module connected between the cadence input and the output of the cycle synchronization signal decoder, the cadence and trigger inputs and the intermediate output of the channel distributor, the cadence input of the multiplexer and the input of the phase discriminator, and connected by its commutated inputs to the outputs

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USSR

YUSHKOV, N. F. et al., USSR Author's Certificate No 259136

of the oscillator and cadence pulse shaper; 2) a phase storage module connected between the selector output and the cadence input of the channel distributor; 3) a series circuit comprised of a control pulse shaper, a counter of decorrelated cycle synchronization signals and a generator of autonomous cycle synchronization signals connected between the output of the cycle synchronization signal decoder and the trigger input of the channel distributor.

5/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

UDC 541.128+662.222

KOROBEYNICHEV, O. P., VIKTORENKO, A. M., TERESHCHENKO, A. G., KOLOMEYCHUK, N. W., Novosibirsk

"Mechanism of the Effect of a Catalyst on Condensed Combustion Systems"

Novosibirsk, Fizika goreniya i vzryva, Vol 8, No 4, 1972, pp 511-517

Abstract: A study was made of the mechanism of the effect of a catalyst on the combustion of condensed systems based on ammonium perchlorate. Results are presented from studying the catalysis of the combusion of ammonium perchlorate and mixtures based on it using an optical microscope and a scanning electron microscope. Data are also presented from the studies of the effect of the disperseness of the catalyst on the combustion rate of ammonium perchlorate and the model system of ammonium perchlorate and polymethylmethacrylate. firm that the catalyst operates very efficiently in the c-phase (the presence of sinks around the catalyst particles in the case of copper oxide). The formation of a skeleton of catalyst particles (in the case of Fe₂O₃) protruding 10-20 microns above the burning surface must also lead to an increase in the efficiency of its effect near the c-phase surface (as a result of an increase in the effective concentration of the catalyst in the vicinity of the gas phase by comparison with that which exists at distances greater than 10-20 microns from the c-phase surface). If the distance from the c-phase surface to the flame 1/2

KOROBEYNICHEV, O. P., et al., Fizika goreniya i vzryva, Vol 8, No 4, 1972, pp

area is 50-100 microns, it can be considered that the catalyst operates efficiently near the c-phase. If the flame area is 10-20 microns from the fuel surface, the c-phase (which can include the skeleton of catalyst particles) is in the flame area.

2/2

-66

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

K

USSR

UDC 621.362.2(088.8)

BEYLIN, A. Yu., DUDKIN, L. D., ZYKOVA, N. P., KOLOMEYETS, N. V. MAZUR, V. A., TARTAKOVSKIY, D. L., KHANIN, M. A.

"A Thermocouple"

USSR Author's Certificate No 227428, Filed 6 Jul 67, Published 20 Jan 70 (from RZh-Electrotekhnika i energetika, No 8, Aug 70, Abstract No 8A127 P)

Translation: The proposed thermocouple contains a P-branch of germanium telluride, a commutation bus of iron, and a commutation substrate. A mechanical mixture of tungsten and tin telluride, or tungsten and lead telluride is used as the commutation substrate. This is to improve mechanical strength and reduce power lost in commutation.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

K

USSR

UDC 613.644:666.962

KUSHNARENKO, N. I., YEREMEYEVA. A. M., MOSHCHANSKIY, Yu. D., and KOLOMEYETS, R. G., Ministry of Health USSR

"Experience in Reducing the Level of General Vibration at the Vibration Tables of a Reinforced Concrete Plant"

Moscow, Gigiyena Truda i Professional'nyye Zabolevaniya, No 2, 1970, p 44

Abstract: The vibration tables used in shaping articles made of concrete subject the workers to general vibrations far above permissible levels. The authors succeeded in lowering the levels to the point where vibrations could not be recorded with a VR-1 gauge or felt by the workers. They did this by placing spring-supported, individually fitted concrete or metal slabs under each table.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

KOLOMEYETS, Ye.V.; TYASTO, M.I.

Effect of "small" solar flares in cosmic rays during the maximum of solar activity. Geomag. i aer. 1 no.4:507-509 Jl-Ag 61.

(MIRA 14:12)

1. Kazakhskiy gosudarstvennyy universitet i Leningradskoye otdeleniye Instituta zemnogo magnetizma, ionosfery i rasprestraneniya radiovoln AN SSSR.

(Cosmic rays)
(Solar radiation)

UDC 661.183.123

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KOLOMEYTSEV, O. P., and KUZNETSOVA, N. N.

"Synthesis and Characteristics of Large-Lattice Ion Exchange Resins"

Leningrad, Zhurnal Prikladnoy Khimii, Vol 45, Vyp 9, 1972, pp 1978-1982

Abstract: The particular resins considered are the N-substituted methacrylamides: N, N-dimethylaminoethylmethacrylamide (DMAEMA) and N,N,N-trimethylaminoethylmethacrylamide iodide (ITMAEMA). The yield and strength of the resins are functions primarily of the amount of "seed" material and the concentration of the monomer. The ion exchange capacity for the resins in 0.1N HCl and 0.1N NaCl vary from about 3-5 meq/g. Cycles of regeneration reduced values to about 3.5 from the initial range of 3.5-5. Copolymerization of DMAEMA or ITMAEMA with N,N-hexamethylenedimetacrylamide may produce a weakly or strongly alkaline anion exchange resin particularly useful for the adsorption of the ions of organic compounds.

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- 18 -

USSR

UDC: 621.372.822

KOLOMEYTSEV, V. A. minetician Catholica in the

"Distribution of Steady-State Temperature in a Waveguide With an Absorbing Film of Magnetic Material on the Inner Surface"

V sb. Vopr. elektron. tekhniki (Problems of Electronic Technology--collection of works), Saratov, 1971, pp 74-81 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6B136)

Translation: A heat source function is analyzed. An investigation is made of the conditions of the effect of absorption inhomogeneity on heat field distribution. Recommendations are given for effective use of film resistors in a rectangular waveguide. Resumé.

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USSR

UDC: 621.372.822

ARKHANGEL'SKIY, Yu. S., KOLOMEYTSEV, V. A.

"Heat Field of a Rectangular Waveguide With an Absorbing Film on the Inner Surface"

V sb. Vopr. elektron. tekhniki (Problems of Electronic Technology-collection of works), Saratov, 1971, pp 82-92 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6B135)

Translation: Computational relationships are found for determining the heat field of a rectangular waveguide with a thin microwave power absorbing film applied to the inner surface. An investigation is made of the process of heating of the waveguide during the transmission of pulse power through it. Three illustrations, bibliography of seven titles. Resumé.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

USSR

UDC: 621.382.2

KOLOMEYTSEV, V. F., POSTNIKOV, I. V., MIL'MAN, S. I.

A Gallium Arsenide Mixer Diode With Schottky Barrier"

Elektron. tekhnika. Nauch.-tekhn. sb. Poluprovodn. pribory (Electronic Technology. Scientific and Technical Collection. Semiconductor Devices), 1970, vyp. 5 (55), pp 3-11 (from RZh-Elektronika i yeye Primeneniye, No 6, Jun 71, Abstract No 68217)

Translation: Design calculations and measurement results are given for a microwave mixer diode with Schottky barrier. The design of the semiconductor diode is based on an epitaxial planar structure with gold — gallium arsenide honeycomb contacts. The operations used include epitaxial growth, ion plasma application of a protective film, photolithography and electrochemical and vacuum deposition. The parameters of the resultant semiconductor diodes are also presented. Resumé.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

KOLOMIETS, V. G., MUKHITDINOV, T. M.

"Averaging in Systems of Differential Equations with Random Parameters"

Analit, i Kachestven. Metody Teorii Differents, Uravneniy [Analytic and Qualitative Methods in the Theory of Differential Equations -- Collection of Works], Kiev, 1972, pp 118-124 (Translated from Referativnyy Zhurnal, Kibernetika, No 3, Moscow, 1973, Abstract No 3 V103 by M. Benderskiy).

Translation: A study is made of the system

$$\begin{aligned}
x &= eX (t, x, y, \omega), \\
y &= Y (t, x, y, \omega),
\end{aligned}$$

where $x \in \mathbb{R}^n$, $\psi \in \mathbb{R}^m$, $\omega \in \Omega$, Ω is a probability space. Together with this system, a study is made of the degenerate system

$$\dot{y} = Y(t, x, y, \omega), x = \text{const},$$
 (2)

to which (1) is converted where = 0. If the solution of system (2) $y = f(t, x, c, \omega), f(0, x, c, \omega) = c$ is known, then (1) indicates that

1/2 $\frac{ax_1}{dt} = eX((t, x, f(t, x, c, \omega), \omega) = eF((t, x, c, \omega), x(0) = x_t,$

KOLOMIETS, V. G., MUKHITDINOV, T. M., Analit. i Kachestven. Metody Teorii Differents. Uravneniy, Kiev, 1972, pp 118-124.

$$\frac{dy}{dt} = -\varepsilon \left(\frac{\partial f}{\partial c} \right)^{-1} \frac{\partial f}{\partial x} \cdot X \left(t, x, f, \omega \right) = \varepsilon \mathcal{I} \left(t, x, \epsilon, \omega \right),$$

$$c \left(0 \right) = y_{\bullet}. \tag{3}$$

In the case when $F(t, x, c, \omega)$ and $Z(t, x, c, \omega)$ have even distribution with respect to time with probability 1, the theorem of R. Z. Khas'minskiy on averaging can be applied to analysis of system (3). If only $F(t, x, c, \omega)$ has an even mean, the authors apply a theorem which they proved earlier (3).

2/2

- 11 -

KOLOMIETS, V. G., MUKHITDINOV, T. M.

"Partial Averaging in Nonlinear Systems of Differential Equations with

Analit. i Kachestven. Metody Teorii Differents. Uravneniy [Analytic and Qualitative Methods in the Theory of Differential Equations -- Collection of Works], Kiev, 1972, pp 125-134 (Translated from Referativnyy Zhurnal, Kibernetika, No 3, Moscow, 1973, Abstract No 5 V104 by M. Benderskiy).

Translation: A study is made of the system

$$\begin{cases} \dot{x} = \varepsilon X (t, x, y, \omega) \\ \dot{y} = \varepsilon Y (t, x, y, \omega), \ x(0) = x_{\bullet}, \ y(0) = y_{\bullet}, \end{cases}$$
(1)

where $x \notin \mathbb{R}^m$, $y \notin \mathbb{R}^n$, is a point in the probability space, X(Y) is an m-dimensional (n-dimensional) vector function. It is assumed that for function X, the strong law of large numbers if fulfilled:

$$\frac{1}{t}\int_{0}^{t}X\left(t,x,y,\omega\right)dt+X_{0}\left(x,y\right)\,\operatorname{пр}H\,t+\infty$$

1/2

USSR

KOLOMIETS, V. G., MUKHITDINOV, T. M., Analit. i Kachestven. Metody Teorii Differents. Uravneniy, Kiev, 1972, pp 125-134.

with probability 1. Suppose $x(t, \omega)$, $y(t, \omega)$ is the solution of (1), while $\xi(t, \omega)$, $\eta(t, \omega)$ is the solution of the partial averaged system, i. e., a system which is produced by replacement of X with X_0 . It is proven that for sufficiently small $\delta > 0$ and any L > 0, we can indicate an $\epsilon_0 > 0$ such that where $0 < \epsilon < \epsilon_0$ in the interval $0 < t < L\epsilon^{-1}$, the equation

 $M \mid x(t, \omega) - \xi(t, \omega) \mid < \delta$, $M \mid y(t, \omega) - \eta(t, \omega) \mid < \delta$, is fulfilled if $X(t, x, y, \omega)$ and $Y(t, x, y, \omega)$ are evenly limited and satisfy the Lipshits condition.

If the solution $\xi(t, \omega)$, $\eta(t, \omega)$ is evenly asymptotically stable, formula (2) obtains with all $t \ge 0$.

2/2

TITLE-PRESERVATION OF THE VAGUS NERVE IN GASTRECTOMY -U-PROCESSING DATE-- 20NOV70

AUTHOR-(03)-MASYUKOVA, YE.M., TSEKHANOVICH, T.I., KOLOMINA, I.D.

CCUNTRY OF INFO--USSR

SOURCE-KHINURGIYA, 1970, NR 6, PP 39-43

DATE PUBLISHED ----- 70

SUBJECT AREAS-BICLEGICAL AND MEDICAL SCIENCES

TOPIC TAGS-DIGESTIVE SYSTEM, SURGERY, JEJUNUM, PROTEIN METABOLISM,

CENTRGL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--3002/1769

STEP NO-UR/0531/70/000/006/0039/0043

CIRC ACCESSION NG--APO129137

UNCLASSIFIED

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CIRC ACCESSION NO-APO129137

ABSTRACT/EXTRACT—(U) GP-O— ABSTRACT. THE ISSUE CARRIES THE RESULTS OF EXAMINATION OF 82 PATIENTS AT REMOTE PERIODS AFTER GASTRECTOMY; IN 18 PRESERVED. THE OPERATIONS WERE PERFORMED VIA THE ABDOMINAL APPROACH, OF ESOPHAGOJEJUNGSTOMY. THE RESULTS OF CLINICAL EXAMINATION OF THE ALL AS STUDIES OF THE PROTEIN CARBOHYDRATE METABOLSIM, AND THE FUNCTIONAL STATE OF THE LIVER IN PATIENTS AFTER GASTRECTOMY HAVE CONDUCTIVE TO A BETTER COMPENSATION OF THE PARASYMPATHETIC INNERVATION IS FACILITY: KAFEDRA GCSPITAL NGY KHIRURGII TOMSKOGO MEDITSINSKOGO

UNCLASSIFIED

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UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--INVERSE CORRELATION BETWEEN THE FUNCTIONAL ACTIVITY OF AN
ANTICOAGULATING SYSTEM AND THE DEVELOPMENT OF A NEOPLASM IN THE ORGANISM
AUTHOR-(03)-KUDRYASHOV, B.A., KALISHEVSKAYA, T.M., KOLONINA, S.M.

COUNTRY OF INFO--USSR

SOURCE--VESTN. MOSK. UNIV., BIOL., POCHVOVED. 1970, 25(2), 16-43

DATE PUBLISHED ---- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--NEOPLASM, BLOOD COAGULATION, FIBRINDLYSIS, ANTICOAGULANT DRUG, RAT, MOUSE, NERVOUS SYSTEM DRUG, CHLORPROMAZINE, HEPARIN, DDG, CARCINOMA, REPRODUCTIVE SYSTEM

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO---F070/605008/009 STEP NO--UR/0444/70/025/002/0016/0043

CIRC ACCESSION NO--APO139983

UNCLASSIFIED

2/2 026 UNCLASSIFIED PROCESSING DATE--04DEC70 CIRC ACCESSION NO--APO139983 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. AS THE GROWTH OF NEOPLASMS APPEARS TO BE ACCOMPANIED BY A STIMULATION OF THE BLOOD CLOTTING MECHANISM, THE EFFECTS OF ANTICOAGULANTS AND FIBRINOLYTIC AGENTS ON TUMOR BEARING RATS AND MICE WERE INVESTIGATED. BLOOD ANALS: SHOWED A 3-4 FOLD INCREASE IN FIBRINGEN CONTENT, A DECREASE IN FIBRINGLYTIC ACTIVITY (0-2PERCENT VS. 10-12PERCENT IN CONTROLS), AND A SHORTENED CLOTTING TIME. TUMOR BEARING MICE WITH HEPARIN OR FIBRINOLYSIN, ALONE OR IN COMBINATION, DID NOT PRODUCE A CONSISTENT REDN. IN TUMOR GROWTH. ACTUALLY PROMOTING GROWTH IN SEVERAL ANIMALS. HOWEVER, BLOCKING OF THE VEGETATIVE NERVOUS SYSTEM WITH CHLORPROMAZINE DURING ANTICOAGULANT AND FIBRINOLYTIC TREATMENT LED TO A SIGNIFICANT REGRESSION OF TUMORS. THUS, DAILY ADMINISTRATION OF 2000 UNITS HEPARIN-KG AND 8000 UNITS FIBRINDLYSIN'KG AFTER TUMOR TRANSPLANTATION PRODUCED AT 51-96PERCENT DEPRESSION OF TUMOR GROWTH IF THIS TREATMENT WAS SUPPLEMENTED BY THE ADMINISTRATION OF CHLORPROMAZINE. A SIGNIFICANT DECREASE IN METASTASES WAS ALSO OBSD. CHLORPROMAZINE ADMINISTERED ALONE PRODUCED A LOHER AND LESS CONSISTENT REGRESSION OF TUMORS. HISTOPATHOL: STUDIES CONFIRMED THE BENEFICIAL EFFECT OF THE COMBINED ANTICOAGULANT CHLORPROMAZINE TREATMENT. THIS DRUG COMBINATION WAS APPLIED WITH SUCESS TO THE TREATMENT OF A DOG WITH SPONTANEOUS ADENOCARCINOMA OF THE MAMMARY GLANDS.

UNCLASSIFIED

and the outer surface of the hub are spiral channels and 4 of right and left hand thread. The glue layer joins hub and crown. If the joint should be broken, the two parts will not turn relative to each other.

6.5.67. as 1154010/25-27, Add to 185657 KOI/MINOV.

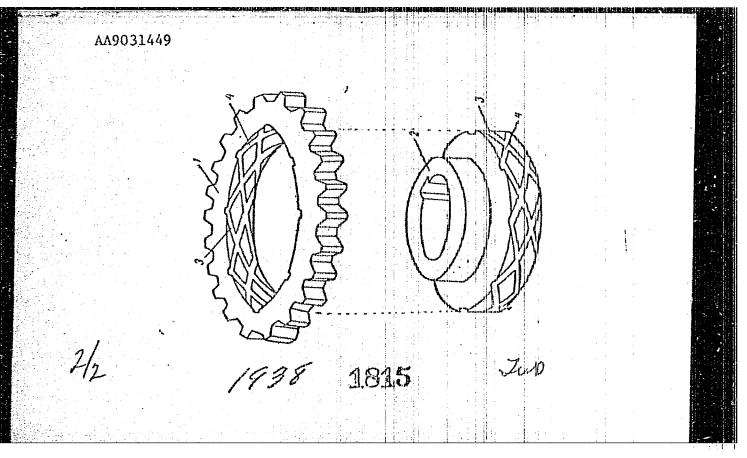
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over differing in the contact surfaces of



Chelovek sredi Tyudey (Fan Among People), Moscow, Molodaya gyardiya, 1973, USSA There is probably an unwritten law that stipulates the time that must KOLOMINSKIY, Ya. separate the publication of fundamental works from the publication of popular separate the publication of fundamental works from the publication of popular books in a given area of science. Not long ago I saw Popular Nuclear Physics 240 pp, 100,000 copies printed cookstore. Imagine, it is already popular.

If such a law does exist, the book you have just read clearly violates it.

If such a law does exist, the book you have just read clearly violates it. It was written hot on the traces of experimental research on group psychology. in a bookstore. Imagine, it is already popular. It was written not on the traces of experimental research on group psycholic lit includes accounts of works on the reports of which the "ink is not yet" It includes accounts of works on the reports of which the Ink is not yet the dry." Hence it is pointless to search for a systematic presentation of all the dry." Hence it is pointless to search for a systematic presentation of the dry." ary. mence it is pointless to search for a systematic presentation of all the basic questions in the book.

After all it is not yet clear just which of the basic questions in the basic are the basic basic questions in the book. After all it is not yet clear just which of the The book rather contains things problems of our science are the basic ones. Another psychologist would have that strike me as important and interesting. Probably failed to mention centain that strike me as important book. what strike me as important and interesting, another psychologist would have written an entirely different book. I have probably failed to mention certain points and of course I have not been able to now all the coinstints when points and of course I have not been able to name all the scientists whose points and or course I have not been able to name all top scientibus who research findings have become a part of the book in one way or another. There is yet one more doubt that does not let me rest: was it worthwhile man the doors of the psychological laborators. to open the doors of the psychological laboratory for everyone to see? In to open the doors of the psychological laboratory for everyone to see? In the open the doors of the psychological wisdom? What if the readers get the

KOLOMINSKIY, Ya., Molodaya gvardiya, 1973, 240 pp

idea that they know everything and begin experimenting on one another? I hope that this will not happen. After all people do not take out their own appendix just because they have read a popular book on surgery. An no one will perform heart surgery on their friends after seeing the movie based on the story by Nikolay Mikhaylovich Amosov.

But man among people is always a psychologist. And if our talks have helped you to glimpse something new in such age-old and conventional phenomena as human interrelations, if they have prompted you to think upon your place among people, if you have decided that group psychology is an important thing among people, if you have decided that group psychology is an important thing then the author will consider his mission fulfilled.

Page

then the author WIII constants	1 6450
then the author will consider	- 5
Chapter One. How Albert Einstein took pity on Jean Piaget A living library	
Chapter of the angeline of the	15
A living library of another's mind	10
A living library	
Into the darkness of another's mind The Kinnbrook affair	24
The Kinnbrook affair	24
Chapter Iwo. Society minds	
Can psychology be asked the	
Can psychology be asocial? Microstructure of society The psychology business	29
microside our husiness	31
The psychology business the ps	
The psychology business	

- 100 -

SSR	
OLOMINSKIY, Ya., Molodaya gvardiya, 197	
The group and the collective	
and the state of t	lmost discovered sociometry 51
	74 76
- , , ,	
And you, my friends, no matter how	you sit
•	
Ha. U 9 T. Jane	
	107
School for leaders	
The debate concerning conformity	
/5 Substitute group	

JSSR
KOLOMINSKIY, Ya., Molodaya gvardiya, 1973, 240 pp
Through the prism of purpose Cerebral attack A group that heals Chapter Six. Yura Volkov agrees with George Sand Who am I? Paradoxes of realization Fat or thin Who is who? If I were the czarina or once more concerning paradoxes Chapter Seven. Secrets of charm "What" and "Why?" The secrets of "tele" Polar profiles Polar profiles Equation with four unknowns (or the second "and all the same") Equation with the "smaller brethren" Chapter Eight. With the "smaller brethren" 218 Between Charybdis and Scylla 128
4/5
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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

KOLOMINSKIY, Ya., Moloda	ya gvardiya, 19	973, 240 pp		
Rings with feet		• • • • • • • • • • •		219
"Alpha" and omega" Nor do they live by				221
In place of a conclusion			*****	236
		• •		
	•			
/5	-			

Surgery

USSR

KOLOMIYCHENKO A. I., Director, Kiev Scientific Research Institute of Otolaryngology

"They Hear Again"

Kiev, Pravda Ukrainy, 17 Feb 70, p 4

Abstract: In this brief press interview, the director of the Kiev Research Institute of Otolaryngology highlights the progress made in recent years in the surgical treatment of otosclerosis (hearing restored in 96% of the cases), drug therapy of chronic otitis, and advances in tympanoplasty, including the use of prostheses. Mention is made of the efforts by Professor V. I. Rodin of the Donetsk Medical Institute to restore hearing by transplanting auditory ossicles. The long-term results of 55 such operations are awaiting evaluation.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

USSR

UDC: 621.317.362.023(088.8)

VORONTSOV, A. N., KOLOMIYCHENKO, G. N.

"A Waveguide Bolometric Head"

USSR Author's Certificate No 270014, filed 1 Apr 68, published 13 Aug 70 (from FZh-Radiotekhnika, No 1, Jan 71, Abstract No 1A317 P)

Translation: This Author's Certificate introduces a waveguide bolometric head which contains a section of waveguide and a wire filament. To increase power measurement precision, a longitudinal slot is made in the waveguide wall, and above this slot are turns of the wire filament which is wound over the waveguide and insulated from it by a dielectric film. Resumé.

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- 52 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

1/2 020 UNCLASSIFIED PROCESSING DATE-300CT70
TITLE-EVALUATION OF THE METHODS OF SURGICAL TREATMENT OF PEPTIC ULCER -U-

AUTHOR-(02)-KGLOMIYCHENKO, M.I. BOYKOV, YA.P.

CEUNTRY OF INFO-USSR

SOURCE-KHIRURGIYA, 1970, NR 6, PP 16-23

DATE PUBLISHED-----70

SUBJECT AREAS-BICLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-SURGERY. DIGESTIVE SYSTEM DISEASE, STOMACH, DUODENUM

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1771

STEP NO--UR/0531/70/000/006/0016/0023

CIRC ACCESSION NO--APO129139

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

2/2 020 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--APO129139 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. THE ARTICLE GIVES AN ASSESSMENT OF DIFFERENT METHODS OF SURGICAL TREATMENT OF GASTRODUODENAL ULCER ON THE BASIS OF CLINICAL DATA FOR THE PERIOD BETWEEN 1969-1969. RESECTION OF THE STOMACH IS DEEMED AS THE MAIN METHOD OF SURGICAL TREATMENT OF GASTRIC PEPTIC ULCERS BASING UPON THE RESULTS OF 542 OPERATIONS FOR GASTRODUODENAL ULCERS. BILLROTH-1 MODIFICATIONS AND ECONOMIC RESECTIONS ARE CONSIDERED AS JUSTIFIED. IN DUODENAL ULCERS, AS A RULE, IT IS NECESSARY TO RESECT TWO THIRDS OF THE STOMACH, THIS GUARANTEES FROM THE ORIGINATION OF PEPTIC ULCER OF THE ANASTOMOSIS. IN LOW LOCATED DUODENAL ULCERS GOOD RESULTS WERE DETAINED IN RESECTION FOR EXCLUSION. IN SUCH INSTANCES VAGOTOMY IS ALSO INDICATED. SELECTIVE GASTRIC VAGOTOMY WITH DRAINING OPERATIONS MERIT ATTENTION, HOWEVER, THEY REQUIRE FURTHER CLINICAL STUDY, ESPECIALLY AT REMUTE PERIODS. OBSHCHEY KHIRURGII KIEV. MEDITSINSKOGO INSTITUTA. FACILITY: KAFEDRA

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

Nitrogen Compounds

USSR

WC 632.95

FOKIN, A. V., KOLOMIYETS. A. F., STUDNEY, YU. N., and RAPKIN, A. I.

"Process for the Preparation of the B-Rhodanine Ethyl Esters of Carboxylic

USSR Author's Certificate No 350-783, filed 30 Jul 70, published 20 Sep 72 (from Referativnyy Zhurnal -- Khimiya, No 11(II), 1973, Abstract No 11N579P by T. A. Belyayeva)

Translation: A process is described for the preparation of the \$\beta\$-rhodanine ethyl esters of carboxylic acids by the reaction of trimethyl- \$\beta\$-rhodane-thoxysilane (I) with an acyl halide at 0-120° in an organic solvent. For example, 7.2 g of FCICHCOCL are added 8.8 g of (I), heated with the simultaneous distilling of tri-methylchlorosilane and yielding 9.6 g of the \$\beta\$-rhodanine ethyl ether of fluorochloroacetic acid. The boiling point is 109-110°C/1 mm, the n²⁰D is 1.4821, d²⁰ is 1.4180. 5.4 g of the trimethyl-chlorosilane is added to a suspension of 5.3 g of KSCN in 35 ml of acetone, stirred at about 20° for two hours, to which is added 2.6 g of ethylene oxide. The reaction mixture is allowed to sit for 1 hour; the excess ethylene oxide is removed; the mixture is filtered and 6.3 g of KCICH₂CCCl is added to the filtrate. It is then allowed to sit for 1 hour at 20°. 8.3 g of the \$\beta\$-rodane

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R001401420004-5"

FOKIN, A. V., et al., USSR Author's Certificate No 350783, filed 30 Jul 70, published 20 Sep 72

ethyl ethers of monochloroacetic acid is separated. The product has a boiling point of 119° at 1 mm, $n^{20}D$ of 1.5125 and a d_{40}^{20} of 1.3857. The following compounds were also prepared. The numbers given are the boiling point in °C/mm or the freezing point in °C, the $n^{20}D$, and d_{44}^{20} ; MeC(0)CH₂CH₂SCN, 72 - 3/1, 1.4765, 1.1891; 2.4-Cl₂C₆H₃OCH₂C(0)OCH₂SCH, 35 - 6, -, -; CCl₃C(0)OCH₂CH₂SCN, 44 - 5, -, -; CCl₃C(0)OCH₂CH₂SCN, 93 - 4/9, 1.4174, 1.4160; CF₃CF₂CF₂C(0)OCH₂CH₂SCN, 84 - 5, -, -, and PhC(0)OCH₂CH₂SCN, 137 - 8/1, 1.5631, 1.1960.

2/2

39 ...

mc 632.95

USSR

BLIZNYUK, N. K., KOLOMIYETS, A. F., GOLUBEVA, R. N., GRANIN, Ye. F., FADEYEV, Yu. N., VRUBLEVSKAYA, L. S., VARSHAVSKIY, S. L., KOFMAN, L. P., VIKHANSKIY, K. N.

"A Method of Making Derivatives of Aryl Esters of β -Isothiuronium Ethanesulfonic Acid"

USSR Author's Certificate No 337381, filed 1 Aug 63, published 1 Jun 72 (from RZh-Khimiya, No 9, May 73, abstract No 9N522P by T. G. Chekareva)

Translation: Compounds of the general formula RO3SC2H4SC(NH2)=NH·HA (I) (R = aryl unsubstituted or substituted by C1, No2, Me; A = Cl or an organic acid radical) are synthesized by reacting Ch₂=CHSO₃R (II) with salts of thiourea or a mixture of thiourea with inorganic or organic acids. Example. Solutions of equimolar quantities of II and thiourea hydrochloride in butanol which are saturated at 60-90°C are heated at 80-90°C for 1 hour, cooled, and filtered, giving I with a yield of 85-96%. Evaporation of the mother liquor gives an additional quantity of I. The overall yield of I is 95-100%. The following compounds of type I (A = C1) are synthesized (given are R and the melting point in °C): Ph, 165-6; 4-C1C6H4 (Ia), 1/2

CIA-RDP86-00513R001401420004-5" APPROVED FOR RELEASE: 09/17/2001

USSR

BLIZNYUK, N. K., et al., USSR Author's Certificate No 337381, filed 1 Aug 63, published 1 Jun 72

144-6; 3-C1C₆H₄, 168-70; 2,4-C1₂C₆H₃, 157-9; 2,4,5-C1₃C₆H₂, 178-80; 2,4,6-C1₃C₆H₂, 184 (decomp.); 4-N0₂C₆H₄, 155-8; 3-MeC₆H₄, 160-2. Saturated aqueous solutions of equimolar quantities of Ia and 2,4-Cl₂C₆H₃OCH₂COONa are mixed at 90-100°C, cooled, and filtered, giving compound I (A = 2,4-Cl₂C₆H₃OCH₂COO-, R = 4-ClC₆H₄), melting point 134-5°C, yield 99.5%. in concentrations of 3.1-25 mg per liter compound I suppresses the growth of the mycelium Botritis cinerea and Piricularia orysae by 50-100%; in concentrations of 0.25-1 mg per liter, compound I suppresses the growth of spores of Botritis cinerea and Piricularia orysae by 8-100%, and in a concentration of 0.1% the chemical suppresses rust of the wheat strain Puccinia graminis f. tritici by 42-58%.

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UDC 547.341

USSR

FOKIN, A. V., KOLOMIYETS, A. F., and SHCHENNIKOV, V. S.

"Reactions of Phosphorus Pentachloride With Ketones"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(104), Vyp 4, 1972, pp 801-802

Abstract: The reaction of PCl₅ with ketones forms 2-(chloroalkenyl) phosphorotetrachlorides in addition to the gem-dichloroalkanes and chloroalkanes. The yield of the former can be increased with an excess of PCl₅; the yield of the latter two is increased somewhat by increasing the temperature and reaction time. Thus, in these reactions, the phosphorylation of the chloroalkene is the first step in the secondary rearrangement. The reactions in the PCl₅-ketone system may be outlined as follows:

 $\begin{array}{c} \mathrm{RC}(0)\mathrm{CH}_3 + \mathrm{PCl}_5 \longrightarrow \mathrm{RCCl}_2\mathrm{CH}_3 \xrightarrow{-\mathrm{RCCl}} \mathrm{RCCl} = \mathrm{CH}_1 \\ \mathrm{RCCl} = \mathrm{CH}_2 + \mathrm{PCl}_5 \xrightarrow{-\mathrm{HCl}} \mathrm{RCCl} = \mathrm{CHPCl}_4 \xrightarrow{-\mathrm{PCl}_5} \mathrm{RCCl} = \mathrm{CHCl}. \end{array}$

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USSR

BABII, V. V., BLIZNYUK, N. K., DENISENKOVA, R. N., KOLOMIYETS, A. F., STREL'TSOV, R. V., FILIN-KOLDAKOV, B. V.

"Method of Fighting Undesirable Vegetation"

USSR Author's Certificate No 303038, filed 20/04/67, published 5/07/71. (Translated from Referativnyy Zhurnal Khimiya, No 4, Moscow, 1972, Abstract No 4N703P by T. A. Belyaeva).

Translation: In order to increase the herbicidal properties of α -(2, 4, 5-tricholorophenoxy)-propionic acid, it is suggested that it be used as its benzylester, which is more active than the other esters of this acid and has very low volatility.

- 57 -

UDC 547.27+547.562

FOKIN, A. V., KOLOMIYETS, A. F., SHCHENNIKOV, V. S., and STUDNEV, Yu. N.

"Reactions of 2-Aryl(Alkyl)thioethanols With Phosphoric Acid"

Leningrad, Zhurnal Organicheskoy Khimii, Vol 7, No 7, Jul 71, pp 1406-1407

Abstract: Reacting phosphoric acid with 2-aryl and 2-alkylthioethanols in solutions produces good yields of respective simple ethers. A mixture of 0.1 g-mole of aryl or alkylthioethanol, 50 ml toluene or xylene, and 0.5 g of anhydrous phosphoric acid is refluxed under a Dean-Stark trap as long as water is being produced. The reaction mixture is then cooled, dissolved in 50 ml benzene, washed with sodium carbonate until neutral, dried and vacuum distilled to yield the desired products.

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UDC 632.95

BABIN, V. V., DENISENKOVA, R. N., UGRYUMOV, YE. P., SHCHEGLOV, YU. V., BLIZNYUK, N. K., STREL'TSOV, R. V., and KOLOMIYETS, A. F., Northern Caucasus Scientific Research Institute of Phytopathology; All-Union Scientific Research Institute of Phytopathology, Moscow, Ministry of Agriculture USSR

"Herbicide"

USSR Authors' Certificate No 250603, filed 14 Jun 68, pùblished 26 Jan 70, (from RZh-Khimiya, No 20 (II), 25 Oct 70, Abstract No 20 N601P by N. B. VSEVOLOZHSKAYA)

Translation: Compounds of the general formula / Π -Cl-2RC₆H₃CCH₂C (0)07₂ SnBu₂ (I) (R = Cl or Me) are not inferior in herbicidal activity to butyl esters of the corresponding aryloxyalkylcarboxylic acids. For example, mustard plants in the six-leaf phase were sprayed with aqueous solutions of I in a docs of 50, 100, 250 and 500 g/ha (calculated in acid equivalent). The dose at which the weight of aboveground portions of the plant declines 50% was 53 g/ha for I (R = Cl), whereas that for the butyl ester of 2,4-D was 61 g/ha.

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UDC: 621.373.531.3(088.8)

COLUBCHIKOV, A. M., KOLOMIYTSEV, A. K., LACUNOVICH, Ye. F., Donetsk Scientific Research and Design and Planning Institute for Automation of Mining Machinery

"A Multichannel Overlapping Pulse Generator"

USSR Author's Certificate No 265182, filed 6 Feb 68, published 12 Jun 70 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 1G281 P)

Translation: This Author's Certificate introduces a multichannel overlapping pulse generator which contains a master multivibrator and output cells based on flip-flops with transistors of opposite conductivity type. The device is designed to give a predetermined time overlap of the output pulses. Connected to the collector of the NPN transistor in each output cell of the generator are the input of a coincidence circuit for moving the signal on to the following output channel, and the input of a coincidence circuit for quenching the signal in the preceding channel; the second inputs of the corresponding coincidence circuits are connected together and tied to different legs of the multivibrator, the inputs of the coincidence circuit for moving the signal being connected to the leg of the multivibrator which determines the time of overlap of the pulses.

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UDC: 621.374.32

KOLOMIYTSEY, A. K., LAGUNOVICH, Ye. F., Donetsk Scientific Research Institute for Design and Planning in the Automation of Mining Machinery

"A Computer Which Retains Data in the Case of Interruptions in the Power Supply

USSR Author's Certificate No 250998, filed 5 May 68, published 30 Jan 70 (from RZh-Avtomatika, Telemekhanika, i Vychislitel'nava Tekhnika, No 11, Nov 70, Abstract No 11A40 P)

Translation: This Author's Certificate introduces a computer which retains information when there are interruptions in the power supply. The device contains an end-around counter in which each digital place consists of a flip-flop based on two transistors of opposite conductivity type and a magnetic core with rectangular hysteresis loop. The device also contains a read-out pulse shaper. To improve resistance to interference, the collector of the n-p-n transistor for each digital place is connected through a semiconductor diode to the output of the read-out pulse shaper. A single cell in the counter is activated at each instant. Corresponding to the activated state of a counter cell is the state of positive magnetization of the cora, while negative magnetization corresponds to the deactivated state. These states are retained when the power supply voltage is disconnected. illustration. N. S.

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