THE ACTURE IN A CONTRACT OF A NETHING CHARGE CONTRACTOR Da Martin Carl 3-12-FISHER, L.I., dctsent (Saratov); VARSHAMOV, L.A., professor, direktor. Autonomic changes in sleep therapy of hypertension. Klin.med. 31 no.9:67-70 s '53. 1. Fakul'tetskaya terapevticheskaya klinika lechebnogo fakul'teta Saratovskogo (Hypertension) (Nervous system) (Sleep) meditainakogo instituta. STAR N CHARMEN PERSONAL PROPERTY 下版 医骨颈吸出的 中能 这时这错误了 影響服務 了书籍的轮廓 医肉形 三子花 分子

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2672. VARSHAMOV L. A. et al. Early diagnosis and therapy of hypertensive disease for the purpose of prophylaxis of coronary insufficiency (Russian text) Sovetsk. Med. 1956, 9 (11-15)

This is a review article based on several observations from the author's clinic. One of the factors contributing to the development of coronary insufficiency is hypertensive disease, which is associated with spasm of the coronary arteries and development of coronary atherosclerosis. 'According to the data, out of 300 patients with coronary insufficiency, hypertension was present in 40% (70% had hypertension with atherosclerosis and 30% with functional spasm of coronary arteries). One of the author's coworkers (Markelova) found ECG evidence of coronary insufficiency after exercise in 1/3 of patients with early hypertension. Fischer noticed high irritability of the cerebral cortex in early hypertension, using the method of optic 'chronaxymetry'. Also, a cutaneous hyperreactivity was demonstrated in early hypertension. Ivanov noticed an increased peripheral vascular reactivity in early hypertension using oscillometry as a method of study. Lineikina stressed the appearance of an increased mean arterial pressure as a sign of early hypertension consists of the disturbance of regional relation of blood flow as measured by the pressures in the arteries of the temple and the shoulder. Epifanova demonstrated early decrease in the content of blood phosphate and labile ATP stores in hypertension. All these data point out, according to the author, that early diagnosis of hypertension is possible. The author recommends treatment of this condition in order to prevent the development of coronary artery disease. The treatment should consist of general supportive

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BYREYEV, P.A., prof.; VAESHAMOV, L.A., prof.; VOLYNSKNY, B.G., dotsent;
GERASIMOV, N.V., dotsent; GUREVICH, L.I., dotsent; ZHELYABOVSKIY,
G.M., prof.; KARTASHOV, P.P., prof.; KOCHETOV, K.P., dotsent;
KRUGLOV, A.N., prof.; KUTANIN, M.P., prof.; LARINA, V.S., dotsent;
LOBKO, I.S., doktor [deceased]; LUKOVA, A.I., prof.; MAKHLIN,
Ye.Yu., prof.; NAUMOV, A.I., kand.med.nauk; POPOV'YAN, I.M., prof.;
SOLUN, N.S., kand.med.nauk; TARABUKHIN, M.M., dotsent; THET'YAKOV,
K.N., prof.; TRISHINA, A.A., kand.med.nauk; UL'YANOVA, A.V., dotsent;
FAYN, A.E., kand.med.nauk; FAKTOROVICH, A.M., dotsent; FRANKFURT.
A.I., prof.; FISHER, L.I., dotsent; CHASOVNIKOVA, Ye.P., kand.med.
nauk; SHAMARIN, P.I., prof.; SHAPIRO, M.Ya., dotsent; SHVARTS, L.S.,
prof.; SHUSTERMAN, I.B., dotsent; FOY, A.M., prof.; FREYDMAN, S.L.,
kand.med.nauk; NIKITIN, B.A., dotsent, red.; AFANAS'YEV, I.A.,

[Concise medical reference book] Kratkii terapevticheskii spravochnik. Izd.3., ispr. i dop. Saratov, Saratovskoe knizhnoe izd-vo, 1959. 919 p. (MIRA 13:7)

1. Chlen-korrespondent AMN SSSR (for Tret'yakov). (MEDICINE-HANDBOOKS, MANUALS, ETC.)

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ABRAMOV, M.G., doktor med. nauk; ALEKSEYEV, G.A., prof.; ASTAFNIKO, M.G., prof.; BUREYKO, V.M., dots.; VARSHAMOV, L.A., prof.; VINOGRADSKIY, A.B., KARPOVA, G.D.; KASSIFEKIY, J.A., prof.; VINOGRADSKIY, A.B., KARPOVA, G.D.; KASSIFEKIY, J.A., prof.; VINOGRADSKIY, A.B., KARPOVA, G.D.; KASSIFEKIY, J.A., prof.; VINOGRADSKIY, A.B., KARPOVA, J.A., kand. med. nauk; MISTIFIK, J.B., prof.; LUZHETSKAYA, T.A., kand. med. nauk; ILINITSITEK, S.G., SDENIMA, I.I.; FREOBRAZHENSKIY, A.P., dots.; RADVIL', O.S., prof.; RATNER, M.Ya., doktor med. nauk; RASHEVSKAYA, A.M., prof.; SEMENUYAYEVA, M.N., kand. med. nauk; SIGIDIN, Ya.S., kand. med. nauk; AKTEM'IEV, S.G., red. [Therapeutist's handbook] Spravochnik terapevta. Izd.2., ipr. i dop. Moskva, Neditaina, 1965. 863 p. (MIRA 18:6)
. Deystvitel'nyy chlen AMN SSSR (for Kassirskiy).

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影响

UTHOR:	VARSHAMOV, R.R. 20-5-2/54
ITLE:	Estimation of the Number of Signals in Codes With Correction of Errors (Otsenka chisla signalov v kodakh s korrektsiyey oshibok).
PERIODICAL:	Doklady Akademii Nauk, 1957, Vol.117, Nr 5, pp.739-741 (USSR)
ABSTRACT :	The coding method given by Hamming [Ref.2] with the correc- tion of an error is improved and generalized by the author. With the aid of the proposed method r errors can be cor- rected, whereby the sufficient conditions which are simul- taneously applied as suppositions are weakened. The method is linear just like Hamming's method, i.e. if the informa- tions b' and b" are transmitted by the signals a' and a", then b' + b" is retransmitted by a' + a". 1 Soviet and 1 foreign reference are quoted.
PRESENTED:	By A.N. Kolmogorov, Academician, 10 June 1957
SUBMITTED:	10 June 1957
AVAILABLE:	Library of Congress

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s/058/61/000/004/031/042 A001/A101 6,9500 AUTHOR: Varshamov, R.R. On the method of linear coding with correction of errors in signals TITLE: transmitted Referativnyy zhurnal. Pizika, no 4, 1961, 375, abstract 4Zh306 PERIODICAL: ("Sb. tr. Nauchno-tekhn. o-vo radiotekhn. i elektrosvyazi im. A.S. Popova", 1959, no 3, 43 - 48) The author describes the main ideas of the linear coding method TEXT: with a posible correction of r $\geqslant 1$ errors; the mathematical formalism of the Abel group theory is employed in the method. [Abstracter's note: Complete translation.] |B Card 1/1

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VARSHAMOV, R. R. and OSTIANU, V. M. "Application of finite fields to synthesis of reliable switching structures" report submitted for the Intl. Symposium on Relay Systems and Finite Automata Theory (IFAC), Moscow, 24 Sep-2 Oct 1962.

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VARSHAMOV, R.R. (U.S.S.R.)

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Mathematical theory of the asymmetric coding system. Rev math Roum 10 no.2:165-169 '65.

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1. Submitted June 3, 1964.

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symbols of the transmitted signal, since any deviation, however small, from this classic i version highly complicates the analysis. The use of such an idealized mathe latical model is limited. It is therefore of practical importance to solve the basic 1. Toblem of coding for the broadest assumptions concerning the statistical structure of the n ise sources and intelligence. This problem is solved for linear coding. The solution is used for the formulation of the necessary and sufficient condition for the existence of linear signal systems, used in conjunction with a binary correcting code, which are immune to a special type of noise represented by a sequence of units arising independently and at random in the channel. The mathematical formulation of the condition obtained can be used for constructing such codes. Orig. art. has: 47 formulas and 1 figure.

ASSOCIATION: none		
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L 17551-55 ASIA 2/3/A BIG 102/39/ 100/39/ 100/3/64/025/011/1628/1629 ACCESSION NR: AP5000154 S/0103/64/025/011/1628/1629	
(Moscow)	
a sumbar of signals ABBy minetrical of the	86
SOURCE: Aviomatika i telemekhanika, v. 25 no. 11, 1964, 1628-1629	
SOURCE: Avionatika i telemekiemikar	
TOPIC TAGS: gror correcting code	
ABSTRACT: Coding systems with an asymmetrical binary channel (having abstract: Coding systems with an asymmetrical binary channel (having abstract) and interest pulses) are briefly considered.	
different distortion probabilities for university parts of the finding M signals	
sequences of the form: $z = (z_1, \dots, z_n)$, where a justice is considered. Formulas for top and bottom evaluation of the maximum number is considered. Formulas for top and bottom evaluation of the maximum number is considered.	r
in the secured for a code capable of correcting	e
developed. Cirig. art. has: 10 formulas.	
ASSOCIATION: none	
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ACCESSION NR: AP4041394	8/0020/64/156/006/1303/1311
AUTHOR: Varshamov, R. R.; Kulebakin, V. S.	(Academician)
TITLE: Concerning one theorem of the theory	or polynomial reducibility
SOURCE: AN SSSR. Doklady*, v. 156, no. 6, 19	64, 1308-1311
TOPIC TAGS: cybernetics, control theory, pol irreducible polynomial	ynomial reducibility, Galois fields,
ABSTRACT: The theory of the reducibility of modern theory of linear coding. One of its d	ifficult and important problems is the
synthesis of irreducible polynomials of a giv deals with this problem. Polynomials are con to the Galois field. By using methods of the established for the divisibility of polynomia A basic theorem is then proved from which fou ducible polynomials are derived. Orig. art.	asidered with coefficients belonging number theory, conditions are its of a certain type by one another. In theorems of special cases of irre- has: no figures, 6 equations.
deals with this problem. Polynomials are con to the Galois field. By using methods of the established for the divisibility of polynomia A basic theorem is then proved from which for	asidered with coefficients belonging number theory, conditions are its of a certain type by one another. In theorems of special cases of irre- has: no figures, 6 equations.
deals with this problem. Polynomials are con to the Galois field. By using methods of the established for the divisibility of polynomia A basic theorem is then proved from which for ducible polynomials are derived. Orig. art.	asidered with coefficients belonging number theory, conditions are its of a certain type by one another. In theorems of special cases of irre- has: no figures, 6 equations.

ACCESSION NR: AP4042783	8/0020/64/157/003/0546/0548
AUTHOR: Varshamov, R. R.	
TYPE: On some features of 1. errors	inear codes which correct asymmetrical
SOURCE: AN SSSR. Doklady*,	v. 157, no. 3, 1964, 546-548
TOPIC TAGS: coding, error co control theory	rrection coding, cybernetics, automatic
a channel with unequal probab elements of the message) has than with a symmetrical chann ous mathematical formulation is impossible to obtain new,	mmetrical discrete channel (defined as ilities of distortion of different been less thoroughly investigated el. The article is devoted to a rigor- of the problem and to a proof that it stronger results if the widely used yed in the theory. The following are

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VARSHAMOV, 8.8.

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Some characteristics of linear ordes correcting asymmetrical ercors, Dokl. AN SSSR 157 no.3:546-548 J1 164. (MIRA 17:7)

2. Institut automatiki i telemekaniki. Predstavlens akademikom V.S. Kulebakinya.

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EXTERNAL PROPERTY IN THE REAL PROPERTY INTERNAL PROPERTY NY STATISTICS and the second second second VARSHAMOV, R.R. (Mookva) Estimation of the number of signals in ordes with noncymetri-cal error correction. Avtom. 1 telem. 25 no.11:1628-1629 N 164 (MIHA 18:1)

- ----**國際國際**

Pg-4/Pj-4/Pk-4/Pq-4 IJP(c) GG/3B L 41047-65 EED-2/EWT(d)/T/EWP(1) S/0103/65/026/002/0288/0292 31 ACCESSION NR: AP5006279 Ċ / UTHOR: Varshamov, R. R. (Moscow); Tenengol'ts, G. M. (Moscow) TI "LE: Code correcting single asymmetrical errors SOURCE: Avtomatika i telemekhanika, v. 26, no. 2, 1965, 288-292 TOPIC TAGS: error correcting code, binary code 1/1/ ABSTRACT: An asymmetrical - generally speaking, nonlinear - single-errorcorrecting binary code $W = \sum_{i=1}^{\infty} ia_i \equiv a \pmod{i+1}$, (where α_i are binary numbers, "a" is an integer satisfying the condition $0 \le a < n+1$) is considered whose capacity (number of signals) is greater than that of a corresponding maximum symmetrical code and also greater than the capacity of W. H. Kim and C. V. Freiman's code (IRE Trans., v. IT-5, no. 2, June 1959). Orig. art. has: Card 1/2

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	ACCESSION NR: AP5006279 9 formulas and 1 table.			0
1	ASSOCIATION: none			
	SUBMITTED: 28Sep63	ENCL: 00	SUB CODE: DP	
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ACCESSION NR: AP5010567	UR/0020/65/161/003/0540/0543
AUTHOR: Varshamov, R. R.	e lla B
TITLE: One arithmetical funct	tion applicable to the coding theory
SOURCE: AN 555R. Doklady,	
TOPIC TAGS: coding theory	
ABSTRACT: The properties,	including a method of recurrent evaluation, of this
function: $K_{n,q}(z) = \sum_{\alpha_1 + \alpha_2, \dots + \alpha_n \equiv z \text{ (m)}}$	1, are investigated. Also, conditions of zero
value of the irregular function:	: $V_{n,q}(z) = K_{n,q}(z) - \max_{\mathcal{K}} \{K_{n,q}(\xi)\}$ are found. The K
	capacity of special efficient nonsymmetrical self-
function is connected with the	
function is connected with the correcting codes. Orig. art.	

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L 5015-66 EWT(d) ACC NR: AP5025853 UR/0020/65/164/004/0757/0760 AUTHOR: Varshamov, R. R.	
TITLE: The theory of assymmetric codes (), SOURCE: AN SSSR. Doklady, v. 164, no. 4, 1965, 757-760	
TOPIC TAGS: error correcting code, coding communication coding ABSTRACT: Recently, several researchers have studied the synthesis of codes used during transmission through assymmetric channels (W. H. Kin, C. V. Freiman, TRE Trans. Inform. Theory, 5, 2, 62, 1959; R R. Varshamov, DAN, 157, no. 3, 1964). However, in the theory of asymmetric codes nothing is known about the upper and lower limits of the maximum pos- of asymmetric codes nothing is known about the upper and lower limits of the maximum pos- sible number of signals in error correction codes. Consequently, the present author 1) studies thoroughly the mathematical structure and characteristic peculiarities of asymmetric codes; thoroughly the mathematical structure and upper limits for the maximum possible number of	
and 2) Control of the asymmetric error correction. The paper presents this indicate micro- signals in codes with asymmetric error correction. The paper presents this indicate micro- form of definitions, one lemma, and the proof of two theorems. Presented by Academician AN SSSR V. S. Kulebakin. Orig. art. has: 18 formulas. ASSOCIATION: Institut avtomatiki i telemekhaniki (Institute of automation and telemechanics)	
SUBMITTED: 14Jan65 ENCL: 00 SUB CODE: DP MA	
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CC NRI AT6030869	SOURCE CODE: UR/0000/66/000/000/0117/0133
THOR: Varshamov, R. R.	
G: none	
TLE: Mathematical methods for incr on through an asymmetric channel	reasing the reliability of information transmis-
URCE: Moscow. Institut avtomatiki ya releynykh ustroystv (Abstract an d-vo Nauka, 1966, 117-133	i telemekhaniki. Abstraktnaya i strukturnaya teo- ad structural theory of relay devices). Mccuow,
PIC TAGS: error correcting code, e	encoding theory, error minimization
istence of codes capable of correct wer limits are established for the rrection of repeated asymmetric dis binary optimal asymmetric codes ar the maximal subspaces with respect st effective (among the known) class ons of the type +1, -1, is consider	and the necessary and sufficient condition for the ting $r\Omega$ -asymmetric errors are defined. Upper and maximum possible number of signals in a code with stortions. The topological singularities of line- re investigated, and a theorem on the invariancy to the nature of distortion is proved. A new, as of asymmetric codes, immune to small distor- red. Two arithmetic functions, useful in the en- e asymmetric channel of communication is defined
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as one in which the probabilities of erroneous transmission of different symbols are unequal. As an example of an asymmetric transmission, a system can be cited, in which a threshold detector is used as the decision element. Signals with amplitudes below the threshold are not transmitted. The codes which are designed to correct this condition are called asymmetric. The present work is devoted to deepening the understanding of the mathematical structure and characteristic properties of asymmetric codes, to the investigation of general conformity of their internal structure, and to the establishment of the theoretical existence limits of the codes capable of correcting multiple asymmetric errors. The following specific topics are considered in detail: 1) Conditions for correction of asymmetric errors--Lemma 1. To correct $r\Omega(q)$ -asymmetric errors it is necessary and sufficient that any $\theta \in GF(q)\Omega(\theta)$ is the distance between any two utilized $\Omega(\theta)$ mutually representative signals, x and y is greater than d=2r ++ 1. i. e., $\rho_0(x, y) > 2r + 1.$ GF(q) is a field containing the elements subject to asymmetric distortion. $\rho(x,y) =$.. = x-y. θ is some value from the field GP(q). Lemma 2. For a binary code to be capable of correcting r asymmetric errors, it is necessary and sufficient that for any different pair of utilized signals x and y, the condition $\overline{\rho}(x,y) \geq 2r + 1$ be fulfilled. 2) Upper limit of the number of signals in codes with correction of (q)- asymmetric errors. Theorem 1. The maximum number of signals in any code correct-Card 2/5 1.1 制品和政治部署

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ing r, $\Omega(q)$ -asymmetric errors is

$$q^{(n+1)} \left(\sum_{V=0}^{q-1} S^{r}[(n\omega+v) q^{-i}], q \right)^{-1},$$

where

$$S_{a,q}^{b} = \sum_{V=0}^{o} (q-1)^{V} C_{a}^{V}, \quad C_{a}^{V} = \frac{a!}{V!(a-V)!}, \quad C_{a}^{V} = 0 \ (V > a).$$

3) Lower limit of signals in the same type of code. Theorem 2. The minimum number of signals in the best possible code correcting $r\Omega(\theta)$ -asymmetric errors is

$$q^{n} \left(\sum_{t=1}^{r \text{ sig}} L_{n,\omega}(t) + \sum_{V=0}^{r} \sum_{y=0}^{t-V} (q-\omega)^{V} (\omega-1)^{v} c_{n}^{V+v} \right)^{-1},$$

where

$$L_{n,\omega}(t) = \sum_{V=0}^{r} \sum_{\nu=0}^{2r-V-t} \omega^{t} (q-\omega)^{V} (\omega-1)^{\nu} C_{n-\left[\frac{(n+1)}{V+\nu+t}\right]}^{t} C_{\left[\frac{(n+1)}{V+\nu+t}\right]}^{V+\nu};$$

is a "signum function", and conforms to the definition $0^{\circ} = 1$. 4) Certain topological singularities of linear asymmetric codes. *Theorem* on invariancy of optical linear correcting codes with respect to the nature of distortion. Lemma 3. The norm of each $(x \neq \bar{0})$ element of a vector space immune to r asymmetric errors is greater than r + 1.

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ACC NR: A	R7004287	SOURCE CODE: UR/0274/66/000/011/A010/A010	ן ו
AUTHOR: V	arshamov, R. R.		
TITLE: Mat	thematical theory of asymmetrical	codes	
SOURCE: R	ef. zh. Radiotekhnika i elektrosv	yaz', Abs. 11A75	
REF SOURCH Ch.2., M.,	E: Sb. 2-ya Vses. konferentsiya p , b. g., 39~51	o teorii kodir. i yeye prilozh. Sekts. 1.	
TOPIC TAGE	S: error detecting code, error c	orrecting code, crror correction	•
asymmetric errors in of fault f errors are correcting linear asy number n, r asymmetr of asymmetr	cal codes are explored; the codes transmission over an asymmetrica for various elementary signals). e considered. Upper and lower lim g multiple asymmetrical errors ar ymmetrical codes are analyzed; it the linear optimal code of a len rical errors, is also suitable for	eneral laws of internal structure of are intended for detecting and correcting l channel (that has unequal probabilities Conditions of correction of asymmetrical its of the number of elements in the codes e determined. Distinctive features of is proven that nearly for any natural gth n which is stable with respect to r correcting r symmetrical errors. A class ortion is considered. Bibliography of	
SUB CODE: Cord 1/1	12,09	UDC: 621.391.1:621.391.7	



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DEHARAK*YAN, T.K., general-enyor meditsinskoy aluzhby; VARSHANOV, Yu.L., podpolkovnik meditsinskoy aluzhby

Primary reaction to irradiation; a review of the literature. Voen. mod. zhur. no.10:10-14, 0 .65. (HIRA 18:11)

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	L 27630-66 EWT(m)
1	ACC NR; AP(5018367 SOURCE CODE: UR/0241/66/011/001/0012/0014
	AUTHOR: Variation (0012/0014)
1	AUTHOR: Varshamov. Yu. L. ORG: Military-Medical Order of Lenin Academy in S. H. B.
l.	ORG: <u>Military-Medical Order of Lenin Academy im. S. M. Kirov, Leningrad (Voyenno-</u> meditsinskaya ordena Lenina akademiya)
	meditsinskaya ordena Lenina akademiya)
	TITLE: Mechanism of the origin of vomiting in the period of primary reaction to
	SOURCE: Meditsinskaya radiologiya, v. 11. no. 1. 1966 12.14
	x ray irradiation, pharmacology
	ABSTRACT: Results of the experiments which were carried out on dogs to determine the extent to which the central and reflex mechanisms action to radiation, and the efficacy of aminazine when used as an prior to the irradiation, vomiting was induced in the animals by the administration of apomorphine in a dose of 0.1 milligrams per in a dose of 10-15 milligrams per kilogram body weight; and the excitation of a skin loop on the external cervical section of the irradiation with doses of 250 and 500 r. Vomiting developed in the Card 1/2 UDC: 617-001.28-06:616.33-008.3-092

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Q pharmacological analyzer which in small doses selectively blocks the chemoreceptor of the trigger zone and makes it possible to determine the mechanism of vomiting was administered to the animals. The drug in a dose of three milligrams per kilogram body weight arrested the initial vomiting and prevented the onset of further attacks. Doses of 250 r induced vomiting only in combination with apomophine, a drug which causes a central type of vomiting. The experiments established that aminazine arrests apomophine-induced vomiting, but does not prevent reflex vomiting induced by copper sulfate and the excitation of the skin loop, an indication that aminazine acts as a central antiemetic; the successful application of aminazine in primary reaction to radiation points to the central mechanism of the origin of vomiting; the development of vomiting as a result of the combined action of a radiation dose of 250 r and apomophine also indicates the central mechanism of the origin of vomiting in primary reaction to radiation. [JPRS] SUB CODE: 06 / SUBM DATE: 23Mar64 / ORIG REF: 006 / OTH REF: 010

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VaitShav, N.	
USSR/Chemis	try Crystallization
Card	: 1/1
Authors	: Nefedov, V. D., and Varshav, N. A.
Title	Investigation of isomorphous co-crystallization of tetraphenyl derivatives
Periodical	: Zhur. fiz. khim. 28, Ed. 6, 981 - 984, June 1954
Abstract	: The applicability of the V. G. Khlopin law to systems in which metal- organic compounds (phenyl derivatives) of Pb, Sn, and Si serve as macro- and micro-components, was investigated. Roentgenographic data are presented on the isomorphism for tetraphenyl-Pb, Sn and Si derivatives with an explanation of the isomorphic problem. The determination of the value of fractionation coefficients, for above mentioned systems, by the application of the isomorphic co-crystallization method, is described.
Institution	
Submitted	: November 29, 1952



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VARSHAVCHIK, I.I., inzh. Static calculating models of electric systems. Elek.sta. 31 no.2:52-56 F '60. (MIRA 13:5) (Electric networks -- Electromechanical analogies) 1.1 . .

CIA-RDP86-00513R001858710002-9

VARSHAVER, A. ROZHDESTVENSKAYA, Z.; VARSHAVER, A. Bank control over distribution costs in trade. Den. i kred.12 no.4:44-45 0154. (MIRA 8:2) (Marketing--Costs) (Banks and banking)

VARMAN AL AL

AUTHOR: Varshaver, B.A.

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- TITLE : A-U Sci Conf dedicated to "Raddo Day," Moscow 20-25 May 1957. "Theory of Carrying Capacity in Binary Transmission,"
- PERIODICAL: Radiotekhnika i Elektroniaka, Vol. 2, No. 9, pp. 1221-1224, 1957, (USSR)

For abstract see L.G. Stolyarov.

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CIA-RDP86-00513R001858710002-9 "APPROVED FOR RELEASE: 08/31/2001 International Contract VARSHAVER, B.A. Theory of the transmission of discrete signals with fluctuation noises. Trudy MEI no.29:272-292 '57. (HIRA 13:3) (Information theory) t

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710002-9 ALCOLUMNER ROMAN STRATEGICAL & RESILTATION fileno o VARSHAVER, B. A., Cand Tech Sci -- (dise) "Certain theoretical the theory of the transmission of discrete signals during fluctuating interferences." Mos, 1958, 15 pp. fmax (Min Higher Ed USSR, Mos Order of Lenin Power EngrateenxEngineenxingi Eng Inst), 100 copies. (KL 9-58, 117) 64 a ar a start a train 常和我们的经济和资源。2011年1月



VARSHAVER, B.A.

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Calculation of error probabilities in decoding; one representation of the binomial law of distribution of probabilities. Nauch.dokl.vys.shkoly; radiotekh. i elektron.no.l:51-53 ' 58. (MIRA 12:1) 1. Kafedra radiopriyemnykh ustroyetv Moskovskogo energeticheskogo instituta. (Information theory)

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AUTHOR:	Varshaver, B.A.
TITLE:	On the theory of the receiver being ideal in the sense of Kotel'nikov
PERIODICAL:	Referativnyy zhurnal. Matematika, no.8, 1960, 178-179, abstract no. 9332. Sb. tr. Nauchno-tekhn. o-va radiotekhn. i elektrosvyazi im. A.S.Fopova, 1958, no.2, 20-34
TEXT: Let	$\xi = (\xi_1, \dots, \xi_n)$ be an n-dimensional random vector the
nrohahility	density $p_n(x)$ of which is $x = (v_1, \dots, x_n)$. If the components
E are inde	pendent, normally distributed, and if they have the mean
$\sum_{i=1}^{n} \mathbf{x}_{i}^{2} > \sum_{i=1}^{n}$	y_1^2 there evidently follows the inequality $p_n(x) < p_n(y)$ and
reversely. nikov, when	In the theory of the stability of disturbance of V.A.Kotel'- re the vector ζ plays the part of the vector of distrubance, is interpreted as follows: Among two realizations of the e that one is more probable which has a smaller square of the e that one is more probable which has a smaller square of the
disturbance "length" (a Card 1/2	e that one is more probably which has a successful the latter smaller intensity). The author tries to prove the latter
	and the second

TITLE:	Varshaver, B. A. On the Theory of the Transmission	
	Transmission (K teorii propuskno binarnoy peredache)	oy sposobnosti pri
PERIODICAL:	Radiotekhnika, 1958, Vol. 13, Nr	1, pp. 11-21 (USSR)
ABSTRACT:	Based on the general relations of and the theory of potential dist V. A. Kotel'nikov the althor here mission capacity in binary channes modulation and individual element mitted series. The problem of the reception of the series does not but as a whole will be dealt with same author. For the classification mission channels the set up of the be somehow altered. Different from velocity of transmission is not of	turbance stability by e determines the trans- els with various ways of tary reception of the trans- e transmission when the take place individually i in another work by the ton of the concrete trans- he problem by Shennon must om Shennon the greatest
Card $1/4$	sources but also in all receivers are close to an ideal operation.	s which according to Kotel'nikov

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On the Theory of the Transmission Capacity in Binary 108-1-1/10 Transmission

> given. These offer the possibility to compare the transmission with various ways of modulation and under the assumption of an individual elementary reception of the transmitted series for the case of a limitation by the mean capacity the peak capacity and the band. In a transmission with an active interval the best utilization of mean and peak capacity is reached at a probability of the transmission $p \rightarrow 0.5$ and with equal apriori probabilities of the transmission of elementary signals. The limit for

$$\frac{c}{P_c / \sigma_y^2}$$

for a phase modulation and a bipolar d. c. pulse modulation is $\frac{2}{\pi \ln 2}$, and for a time pulse- and frequency modulation it is $\frac{2}{\pi \ln 2}$. C denoting the trans-

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in the property states and the states of the second states and the

108-1-1/10 On the Theory of the Transmission Capacity in Binary Transmission mission of binary units per second, P_ denoting the mean power of the signal, 5 denoting the specific noise. The best utilization of the band takes place at $p \rightarrow 0$. It is shown that it is impossible to reach simultaneously a great utilization of the sapacity and of the band. In the case of a transmission with a passive interval the best utilization of the mean capacity takes place at $P \rightarrow 0$, $P' \rightarrow 0$ and $\gamma \rightarrow 0$. P denoting the apriori probability of the source, τ denoting the duration of the elementary signal. In this case it is principally possible to approach the value of the absolute limit ln 2 arbitrarely close. Therefore the greatest velocity of transmission can be reached in binary transmission with passive interval and elementary individual reception in the case of a limitation by the mean capacity. This is the one which, according to Shennon, is obtained in a system with a signal Card 3/4TRANSPORT FOR LARSE เสราะการเราะสินหลายการเกมส์เห

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	group of the white noise type. The conditions for the best utilization of the optimum capacity and the channel frequency for the case of a modulation with passive interval are the same as with a modulation with active interval. There are 7 figures, 1 table, and 2 references, 1 of which is Slavic.
SUBMITTED:	May 27, 1957
AVAILABLE:	Library of Congress
	1. Radio transmission-Theory 2. Phase modulation 3. Pulse modulation
Card 4/4	

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CIA-RDP86-00513R001858710002-9

6.9500 AUTHOR: Varshaver, B.A. TITLE: The comparison of uniform codes in binary transmission

PERIODICAL: Referativnyy zhurnal. Fizika, no 4, 1961, 375, abstract 4Zh307 ("Sb. tr. Nauchno-tekhn. α-vo radiotekhn. i elektrosvyazi im. A.S. Popova", 1959, no 3, 49 - 58)

TEXT: The author compares the codes: conventional uniform code, code with repetitions and correcting code, as to transmission speed and noise suppressing abilities. The concept of generalized transmission speed is introduced. Formulae and graphs are presented which permit determination of maximum transmission speed and noise suppressing ability when codes of various complicacy are used.

[Abstracter's note: Complete translation.]

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VARSHAVER, B.A.

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Transmission theory of signals with several discrete values. (MIRA 12:2) Radiotekhnika 14 no.1:3-13 Ja '59.

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi im. A.S.Popova. (Information theory)

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AUTHORS:

S: Varshaver, B. A. and Gerasimov, V. G.

TITLE:

The Use of a Capacitive Transmitter to Control Geometrical Dimensions

PERIODICAL: Priborostroyeniye, 1960, No. 11, pp. 6 - 8

TEXT: The present paper studies a capacitive transmitter to control the diameters of conductive cylindrical bodies. For the control of cylinder diameters, it is most convenient to give the transmitter the form of a cylindrical capacitor. The body to be controlled plays the role of the cylindrical internal electrode. The error on diameter measurement primarily depends on how far it is possible to center the internal cylinder (the body to be controlled) (Fig. 1). To estimate the resolving power of the capacitive transmitter, the authors investigate the dependence of the capacity of the cylindrical capacitor both on the change in diameter and on the shift of the internal-cylinder center with respect to the external-cylinder center. They derive formulas for the relation between the increase in capacity ΔC of the cylindrical capacitor and the change in diameter Δd

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86647 The Use of a Capacitive Transmitter to Control S/119/60/000/011/003/009 Geometrical Dimensions (d is the internal-cylinder diameter), as well as for the relation between ΔC and the shift b. Fig. 2 shows the relation (calculated from these formulas) $\Delta C/C_0$ in % of m at q = 0.1 and q = 0.2 in the form of a diagram. m = d/D, $q = \frac{b}{D/2}$, and C_o is the capacity of the cylindrical capacitor. This diagram shows that the effect of b must be considered for a capacitive transmitter. At m < 0.3, $\triangle C/C_0$ is approximately constant. At m > 0.3, the effect of the shift increases. The most frequent values of m lie between 0.05 and 0.3. The sensitivity of the capacitive transmitter is estimated from the relative shift $\Delta f/f_0$ of the resonant frequency of the oscillation circuit (per unit deviation of the diameter to be controlled). The authors use a formula from the paper (Ref. 5): $\Delta C/C_0 \approx 2\Delta f/f_0$, where $\dot{C} = C_0 + C^*$, and C^* is the capacity acting in parallel to C $_{
m o}$. It is shown that the sensitivity is the higher, the smaller C^{*} becomes. The resonant frequency of the oscillation circuit is to be selected sufficiently high. The authors recommend $f_0 > (2 \div 3)$ megacycles per second. Finally, they derive ۰X Card 2/4TARK REAL A STREET AND A STREET AND A STREET A

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Varshaver, B. A. AUTHOR:

AREASTA THE RECEIPTING SERVICES OF

Approximation of Characteristics of Non-Linear Elements of TITLE: Radiotechnical Systems

PERIODICAL: Elektrosvyaz', 1960, No. 12, pp. 75-76

In a number of cases, actual characteristics of non-linear elements are represented approximately by a broken line forming one or several angles. Thus, the characteristic of the usual amplitude detector is represented approximately by the equations:

i = Su (u≥0) i = 0 (u≰0) (1)

where S is the steepness of the detector's characteristic. Such an approximation, however, leads sometimes to complicated calculations and cumbrous designs, and it is not always possible to reach a satisfactory solution. It seems useful, therefore, to work out a method allowing to replace the approximate function represented by straight lines forming angles by a continuous

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A THE REPORT OF A COMPANY OF A COMPANY 20096 s/106/60/000/012/009/009 A055/A033 Approximation of Characteristics of Non-Linear Elements of Radiotechnical Systems function presenting no angles. The author of the present article describes such a method. Resorting to a comprehensive methematical reasoning and, namely, to auxiliary continuous functions of the type $\varphi(\alpha, u)$ where α is a constant coefficient, he shows how the equations (1) can be replaced by an approximate continuous function, for instance by the function : (8) 1--= I. which represents, with sufficient fidelity, the actual characteristic of the amplitude detector for any value of u. He then applies this method to the cases of non-linear elements with an approximate broken line characteristic containing more than one angle, namely two angles and any number (n) of angles. Approximate continuous functions presenting no angles are developed. by him for either of these two cases, the obtained formula being a general formula in the latter case. There are 2 figures, Card 2/2

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Varshaver, B.A., Member of the Society (see Associa-AUTHOR: tion)

Comparison of discrete signal reception methods TITLE: Radiotekhnika, v. 17, no. 2, 1962, 10 - 14

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PERIODICAL: The author attempts to compare, on the basis of the theory of the potential interference-killing and of information theories, the speeds of information transmission through a channel for two particular cases: a) The code combination is received by the idea-lized Kotel'nikov receiver "in the whole" (Ref. 1: Teoriya potentsial noy pomekho ustoychivosti (Theory of Potential Interference-Killing Properties) Gosenergoizdat, 1956); b) The code combination is received by the idealized Kotel'nikov receiver but in sequence by its component elements. No work, in which numerical analysis of the two methods of reception has been made is known to the author and the comparison is made for one particular case of transmission of a four digit (n = 4) ternary code (m = 3), correcting a single

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THE DIST THE SECOND SECOND STOLEN BEAM IN BEAM

33787 S/108/62/017/002/002/010 D201/D305 Comparison of discrete signal ... error (\triangle = 1). All signals represented by code combinations are error (2) = 1, all signals represented by code combinations are assumed to be equally probable. In making the comparison the author uses the results obtained by him earlier (Ref. 2: NDVSh. Radiotekh-nika i elektronika, no. 1, 1958; Ref. 3: Radiotekhnika, v. 14, no. 1, 1959). The results of the analysis are given in a figure, show-ing the graphs of the generalized speed of transmission with limited average power $\frac{R}{P_s/k_s \sigma_n^2}$ against the probability of decoding error P_{er} .R - the speed fo binary digit transmission; P_{B} - the average power of signal; k_B - a coefficient depending on the method of modulation: for frequency and time-pulse modulation $k_B = 1$. The graphs show that the generalized transmission speed for the reception "in the whole" exceeds by approximately 40 % that of the reception element by element, so that a relatively considerable increase in the interference-killing properties of reception may be achieved by a comparatively small decrease in the speed of transmission. There are 1 figure and 6 Soviet-bloc references. Card 2/3

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ARSHAVER, B.G. 7.01:77.021.11 Some Similarities and Differences in the Processes Involved In Fhotolysis and Second Ripening of Photographic Emulsions. A. A. Tirov and B. G. VARSHAVER. Second Ripening of Photographic Emulsions. A. A. Tirov and B. G. VARSHAVER. Dokl. Akad. Nauk SSSR., 1953, 91, 111-114.—Characteristic curves are obtained Dokl. Akad. Nauk SSSR., 1953, 91, 111-114.—Characteristic curves are obtained for layers of diluted emulsions, only one grain thick, after various periods of ripening. and from them are deduced the "photolytically equivalent second ripening. and from them are deduced the "photolytically equivalent ripenings" $\Delta H/\Delta \tau$, where $\Delta H =$ period of additional exposure producing quantity with the photographic density of the developed single grain layer quantity with the photographic density of the developed single grain layer indicate that in second ripening, the grains are mainly surface sensitized, whereas in photolysis, sensitization may occur equally on the surface and in the interior of a grain. 77.01 : 77.021.11 interior of a grain. ź all-Union Sci. Res. Cinc-Photo Shat. HIS BARRIE [] []

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STREET, STREET, STREET, ST ni dala selangan kara MR IF R 12 4 The unique nature of sensitization and desensitization of photographic emulsions. K. V. Chihicov, A. A. Mithall Joya, and B. C. Varyhayer. Doklady Akad. Nate S. S. K. 88, 510-25 (2004) The each or state the difference between oxidizing agents (I), desensitizers (II), and and foggants (III). I dichromate, persulfate) decrease light sensitivity and remove nonhalide Ag and log. II and II decrease light remaicivity, but do not change the nonhali fo As tontent. If (Disacryptol), pinacryptol white, phenosa I a me, cystine) in the emulsion do not impede log formation in the dot they influence development rate when added to the developer. III (Denzottiazole, mercantobenzimidizole, I, 2-naphthotriazole, adenine, cysteine) in the emulsion pre-vent fog formation and in the developer decrease develop-ment rate. Chamical Abst. Vol. 48 No. 8 Apr. 25, 1954 Photography , 4.15 蠲 也得起我

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erale al antiparte de l'anna processar substration de las substants NAMES AND DESCRIPTION OF A TING, A. A., BAR IS MURLEY, A. T. "On the formation and the role of the active centres in the photographic process," a paper submitted at the International Conference of Scientific Photography, Cologue, FSC, 24-27 Sep 56.
V/I K_JIAVE 0 16 @ VARSHAVED, B.G.; KRAUSH, L.Ya.; CHIBISOV, K.V. Spectral sensitivity of nonsensitized photographic emulsions. Zhur.nauch.i prikl.fot.i kin. 2 no.6:413-420 K-D '57. (MIR 10:12) 1. Vsesoyuxnyy nauchno-issledovatel'skiy kino-fotoinstitut i Kafedra uchebnoy i nauchnoy totografii i kinematografii Moskovskogo gosudarstvennogo universiteta. (Photographic sensitometry)

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<u>، ج</u>	5(4), 23(5) AUTHORS:	SOV/20-126-5-30/69 Varshaver, B. G., Broun, Zh. L., Chibisov, K. V., Corresponding Member, AS USSR On the Spectral Properties of Optically Non-sensitized Photo-	
	TITLE:	graphic Emulsions (O spek de graficheskikh emul'siy)	
	PERIODICAL:	Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1021-1024 (USSR)	
	ABSTRACT:	On the basis of papers (Refs 1-3) according to which silver bromide is not only sensitive to rays of its own absorption spectrum but also to rays with longer waves, the conclusion is drawn that in this connection local disturbances in the micro- crystals caused by impurities play a part. The change in the light sensitivity of the emulsion must be in connection with the absorption spectrum of the impurities. These spectra were, therefore, taken by means of the spectrophotometerSF-4 and a spec- trographic apparatus by Ye. A. Kirillov (Fig 1). The relation between the absorption by impurities and light sensitivity was studied by comparing the isochromatic curves, which show the dependence of the absorption by impurities on the time for	
	Card 1/3	dependence of the description of	
and the second states of the	LEURANA ANTIN'NY FISIANA AMANJAN'I AMANANA AMANANA AMANANA AMANANA AMANANA AMANANA AMANANA AMANANA AMANANA AMAN	naraten er sener letter fri i er en en en en en en en sener kurseren seneret finsense som beren i tru gestrutt	nettiesta.

SOV/20-126-5-30/69 On the Spectral Properties of Optically Non-sensitized Photographic Emulsions

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ripening of the emulsion for different λ , with the kinetic curves of the total light sensitivity (Figs 2,3). The fine structure of the absorption spectra indicates that the crystallization of silver bromide is in the first ripening accompanied by the formation of impurities consisting of silver nuclei. The latter have an immediate effect upon the total sensitivity as well as the sensitivity to blue light. The sensitivity to long-wave light increases only slowly during the time for ripening and is not determined by the amount of AgJ, which increases only the concentration of the primary nuclei (silver nuclei) and the total sensitivity and the sensitivity to blue light. According to Mitchell (Ref 7) the following is assumed: The sensitivity to long-wave light is caused by a kind of coagulation of the nuclei to larger units. The concentration of these units remains inconsiderable compared with that of the primary nuclei. Experiments made by Ye. P. Kramaley (Ref ?) show that silver may occur in the emulsion also in atomic or molecular state apart from the colloidally disperse form. This is assumed for the primary nuclei (I) which, therefore, consist of Ag, are in equilibrium with AgBr, and are adsorbed in

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	the lattice defects of the microcrystals. They cause the total and blue light sensitivity. The secondary nuclei (II) - the units - determine the sensitivity to long-wave light and repre- sent the sublatent nuclei. The third kind are the catalytic developmental nuclei (III). They consist of amorphous silver particles with a high energy potential. They are formed during the capture of photo electrons by the positively charged sub- latent nuclei (II). The transformation (I) - (II) - (III) takes place in the course of ripening of the emulsion as well as under the action of light. These impurity nuclei take part in the formation of the latent image. There are 3 figures and 13 ref- erences, 7 of which are Soviet.
ASSOCIATION:	Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (All- Union Scientific Research Institute of Cinematography and Pho- tography).Institut fiziki Odesskogo gosudarstvennogo universiteta im. I. I. Mechnikova (Physics Institute of Odessa State Uni- versity imeni I. I. Mechnikov)
SUBMITTED: Card 3/3	April 1, 1959

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ACCESSION NR: AP4013973 AUTHORS: Brown, Zh. L.; Varshaver, B. C.; Mel'nichnuk, L. P.; Chibisov, K. V. TITLE: Interaction investigations between spectral sensitivity and admixture spectral absorption of photographic emulsions SOURCE: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 9, no. 1, 1964, 38-46 TOPIC TAGS: spectral sensitivity, photographic emulsion, silver bromide, admixture center, gold sensitizer, discrete bands ABSTRACT: The possible existence of a discrete character in the spectral sensi- tivity of an optically unsensitized photographic emulsion has been studied. First, the magnitude of relative spectral sensitivity S' $\gamma = H_{\lambda}$, σH_{λ} , t (H_{λ} - energy of monochromatic radiation) is calculated for various values of λ and, secondly, a silver bromide Lieppman emulsion is used to observe carefully the thin structure of the admixture center spectra, using the differential method with a gold sensitizer. The spectrosensitometer ISP-73 is used to determine S ₂ in the wave-length interval 420-700 m ₂ . It is shown that the admixture spectral sensitivity is distributed in Cord 1/2	LOOTICETON ND. ADAOA	x073	\$/0077/64/009/001/0038/0046	
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名称目录的日本在国际公共地址公司的目录目录的开始,由于示实际 FRANK, G.M., red.; VARSHAVER, G.S., red.; DANTSIG, N.M., red.; SOKOLOV, M.V., red.; MANIKOV, M.Ye., red.; ZUYEVA, N.K., tekhn. red. [Transactions of the Conference on the Biological Effect of Ultraviolet Radiation Trudy konferentsii po biologicheskomu deistviiu ul'trafioletovogo izlucheniia. 6th, Leningrad, 1958. Moskva, Medgiz. Vol.3. [Ultraviolet radiation; biological effect, therapeutic, preventive, and hygienic uses, and measure-ment] Ul'trafioletovoe izluchenie; biologicheskoe deistvie, lechebno-profilakticheskoe i gigienicheskoe primenenie, izmerenie. Pod red. G.M.Franka i dr. 1960. 271 p. (MIRA 15:3) Pod red. G.M.Franka i dr. 1960. 271 p. 1. Konferentsiya po biologicheskomu deystviju ul'trafioletovogo izlucheniya. 6th, Leningrad, 1958. (ULTRAVIOLET RAYS ___ THERAPEUTIC USE) (ULTRAVIOLET RAYS ___ PHY SIOLOGICAL EFFECT) **推荐的推荐的**问题。是这些时代的是一种的资源。

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Difficulties of diagnosing some diseases of the central nervous system; a clinicopathological jux aposition. Sbor.nauch.trud. Kiev.okruzh.voen.gosp. no.4:299-307 *62. (MIRA 16:5) (BRAIN-DISEASES) (SPINAL CORD-DISEASES)

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Genetic studies on the principle of cell immunity. II. Karyological studies on resistant leukemia cells. Vop. virus 9 no.4:482-489 J1-Ag '64. (MIRA 18:7)

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SOLOVIYEV, V.D.; GEORGADZE, I.I.; VARSHAVER, N.B.

Study of natural changes in the susceptibility to virtues in the transplantable culture of J-96 cells and in cloral subcultures. Vop. virus. 10 no. 6:699-703 N-D '65 (MIRA 19:1)

1. Institut epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR, i Moskovskiy nauchno-issledovatel'skiy institut virusnykh preparatov. Submitted August 4, 1965.

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Some defects in the design of apparatus for exhaustive deparaffinization of oils. Meftianik 2 no.4:17-18 Ap '57. (MIRA 10:5)

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(Imbrication and lubricants)

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65-10-10/13 An Increase in the Productivity and an Increase in the Varshaver, Ye.M. Degree of Recovery of Oil from a Raw Material on the AUTHOR: Operating De-paraffinisation Plants (Uvelicheniye proizvoditel'nosti i uglubleniye otbora masla ot syr'ya na TITIE: deystvuyushchikh ustanovkakh deparafinizatsii) Khimiya i Tekhnologiya Topliva i Masel, 1957, No.10, pp. 52 - 61 (USSR) ABSTRACT: Modification introduced on a typical de-paraffinisation PERIODICAL: plant (designed by Giproneftezavody) are described in some The layout of the original plant (Fig.1) and the quality of the distillate and residual raffinates (Table 1) and quality of the distillate and residual rafinates (Table 1) and operating indices of the plant (Table 2) are described. For the de-paraffinisation of distillate, the final modification of the plant (proposed by Engineers A. Ye.Al'tusher, Z.A. Berna-dyuk, Ye.M. Varshaver, A.I. Demidov, L.M. Korchak, M.G. Mitro-fanov and G.I. Yastrebov) is shown in Fig.5. Its characteristic feature is stepwise dilution with dry solvent and re-circulation feature is stepwise dilution with dry solvent and re-circulation of filtrate. According to this scheme, the plant operated from April, 1955 to July, 1956. The results and mean operating conditions are given in Table 2. A comparison of operating results with every modification tested is given in Table 3. Card1/3 CARGE A LONG DESIGNATION

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65-10-10/13 An Increase in the Productivity and an Increase in the Degree of Recovery of Oil from a Raw Material on the Operating De-paraffinisation Plants

The yield of oil from the distillate raw material increased from 57 to 72%, mean daily output (calculated on oil) by 22% in respect of the actual capacity when the plant was operated according to the designed scheme. De-paraffinisation of the residual raffinate was designed to be carried out according to the same scheme (Fig.1), but with a higher dilution with solvent (4:1 instead of 3:1 by weight). Operating indices are given in Table 4. Results of the laboratory investigations on the influence of the degree of dilution on the de-paraffinisation process are given in Table 5. Changes in dilution did not improve the process. In 1954, on the proposal of Engineers Z.A. Bernadyuk et al., crystallisation conditions were changed by a 5-7% addition to residual raffinate of low-melting paraffins (m.t. 22-28 °C) from de-oiling of "gach" which previously was passed into fuel oil. Kerosenes with low-melting paraffins were precipitating from the raw material in large crystals which made filtering easy. This permitted decreasing the dilution with solvent from 4:1 to 3:1 and increasing the velocity of filtration and thus the output by 15-18% and the yield of oil from Card 2/3

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