32231 s/196/61/000/011,011/042 E194/E155

An investigation of heat exchange ...

of a sudden temperature difference in the layer near the wall, which has increasing effect on the rate of heat exchange because the molecular free path increases with increasing vacuum and with it the thickness of the layer near the wall. The relationships obtained can be used to calculate thermal conditions of thermistors operating in the upper layers of the atmosphere, in vacuum instruments and equipment. 4 literature references.

[Abstractor's note: Complete translation.]

Card 2/2

5/196/61/000/011/012/042 E194/E155

AUTHOR : Devoyno, A.N.

TITLE

Use of the electrical thermal analogy method to study the process of heat transfer in rarefied gas

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika no.ll, 1961, 1, abstract 11G 6. (Tr. In-ta energ AN BSSR. no.ll, 1960, 40-50)

TEXT The electrical thermal analogy method, which is described, is suitable for rapid calculations of temperature conditions of bodies in a rarefied gas atmosphere. To calculate heat exchange by this method it is necessary to establish the relationship between the temperature difference and pressure of individual resistances of the equivalent electrical circuit R_m , R_k , $R_{j\gamma}$, $R\lambda_1$ and R_p , where each value respectively represents

thermal resistance due to thermal conductivity, convection, radiation and resistance of the layers near the walls of both bodies participating in the heat-exchange process. As the resistances are non-linear it is necessary, in designing the Card 1/2

Use of the electrical-thermal

5/195/61/000/011/012/042 E194/E155

electrical circuit, to construct the volt-ampere characteristics of each resistance. Then the circuit calculations, i.e. the determination of current and resistances (which correspond to determination of heat fluxes and temperature) are carried out by the graphical technique for circuits with mixed non-linear elements. The electrical-thermal analogy method is promising for calculations of transient heat exchange processes in rarefied gases. 6 literature references.

Abstractor's note: Complete translation ;

Card 2/2

DEVOYNO, A. N., Cand Tech Sci -- "Study of h in A xchange in A vacuum vacuo at temperatures of up to 250°C." Minsk, 1961. (Belorusdue Polytech Inst im I. V. Stalin) (KL, 8-61, 242)

- 221 -

CIA-RDP86-00513R000410310007-5

DEVOYNO, A.N.

Contemporary state of the problem of heat transfer in rarefield gases. Inzh.-fiz. zhur. no.2:119-130 F '61. (MIRA 14:4)

1. Institut energetiki AN BSSR, Minsk. (Heat--Transmission) (Gases, Kinetic theory of)

CIA-RDP86-00513R000410310007-5

88636

10,4100

11.9000

S/170/61/004/002/017/018 B019/B060

AUTHOR: Devoyno, A. N.

TITLE: The Present State of the Heat Exchange Problem in Harefied Gases

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1961, Vol. 4, No. 2, pp. 119-130

TEXT: The results of recent studies in the field mentioned in the title are discussed and completed in part by the author's own findings. A paper by Kyte, Madden and Piret (Ref. 6) is first discussed, in which the heat exchange was studied with free convection in diluted atmosphere. Formulas are given for the heat exchange in the boundary layer of a sphere and a cylinder, and the temperature field of a vertically stretched wire is discussed. Results concerning the temperature variations around a heated wire are dealt with more closely. The empirical equations for the heat exchange of a sphere and a horizontal cylinder are given and the considerable practical importance attached to the calculation of the heat

Card 1/4

APPROVED FOR RELEASE: 06/12/2000

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The Present State of the Heat Exchange Problem in Rarefied Gases

88635 5/170/61/004/002/017/018 B019/B060

exchange coefficient at pressures of up to 0.1 mm Hg is pointed out. The theoretical considerations made in the abovementioned paper are said to be insufficient. Experimental results obtained by the author regarding the temperature field at low pressures fit those supplied by the said paper. Fig. 3 illustrates the author's results for the variation of the heat exchange coefficient of a cylindrical body at low pressures. A report is then made on a paper by R. Pek, V. Fagen, and R. Verlayn. (Ref. 2) which has dealt with a study of the heat exchange between parallel vertical plates at lower pressures. It has been shown in that paper that at low Grashof numbers the heat exchange coefficient dces not depend on the temperature gradient nor on the plate distance. The present state of the studies of heat exchange with forced convection is discussed next. A paper by Stalder and Jukoff (Ref. 7) has dealt with heat transfer problems of bodies moving at high speed in the upper strata of the atmosphere. This paper is discussed at some length together with the calculation of the temperature of a plate moving at an altitude of 120 to 300 km at a speed of 0 - 11 km/sec. The absence of an experimental demonstration is said to be a major deficiency of that investigation.

Card 2/4

The Present State of the Heat Exchange Problem in Rarefied Gases

88636 s/170/61/004/002/017/018 B019/B060

Stalder, Goodwin, and Creager (Ref. 8) studied the heat exchange in a free high-speed molecular flow, and a result concerning the heat exchange of a plane plate in a flow with slippage is said to be of special interest. The use of boundary conditions for the slippage and the temperature jump, as given by Kennard (Ref. 11) is criticized in this connection. Improved boundary conditions have been set up by A. A. Pomerantsev (Ref. 1). It is stated in conclusion that further studies are required in the field concerned, particular importance being attached to the investigation of heat exchange in high-speed gases constituting free molecular flows. There are 5 figures and 11 references: 5 Soviet and 6 US.

ASSOCIATION: Institut energetiki AN BSSR, g. Minsk (Institute of Power Engineering of the AS BSSR, Minsk)

SUBMITTED: August 9, 1960

Card 3/4

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Card 4/4

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S/170/61/004/006/0C6/015 B129/B212

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11.9200

AUTHOR : Devoyno, A. N.

TITLE:

Basic regularities of heat transfer with natural convection in a rarefied gas

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 4, no. 6, 1961, 70-77

TEXT: The author considers the problem of the heat transfer for a vertical plate located in a rarefied gas, which is in a viscous or molecularviscous state. The theoretical results are compared with experimental data. According to the degree of rarefaction there are three types of gas states: The viscous, the molecular-viscous, and the molecular state.

The ratio of the mean free path λ of a molecule to the dimensions of the container or to the body d located in the gas will determine the type of state. If the ratio $\overline{\lambda}/d$ is smaller than 4.6.10⁻³ the state will be viscous, for 4.6.10⁻³ < $\overline{\lambda}$ /d < 1.5 the state will be molecular-viscous, and Card 1/4

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23751

Basic regularities of heat ...

s/170/61/004/006/006/015 B129/B212

for λ/d >1.5 the state will be molecular. In a moving gas these states will correspond to : Continuous flow, flow with slip and molecular flow. In each of these state the heat transfer will differ by certain properties. For the molecular-viscous state the conditions which are valid for normal pressures cannot be applied to calculate the heat transfer. If the rarefaction is high enough in a molecular ... viscous state it will be impossible to count on the presence of convection flows since here the velocities are insignificant. In such a case it will be sufficient to consider the heat transfer equation for solving the problem of the heat transfer. The equations of motion and continuity will he meaningless. A sc-called "wall layer" will be formed at the boundary between gas and wall when in the molecular-viscous state. The thickness of this layer will be significant and equal to the mean free path of the molecules, and in it the gas will loose its viscous properties. The boundary layer however will be moved from the wall since it is separated from it by the wall layer; it might be considered as a natural insulation layer between gas and wall. Therefore, the effect of the wall on the rarefied gas will be decreased significantly. The problem of the analytical study of the heat

Card 2/4

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Basic regularities of heat ...

transfer with natural convection of a rarefied gas may be divided into three cases: 1) Heat transfer in the molecular-viscous state at high rarefactions if the velocities of motion of the gas are small and if the convection flows can be neglected. This problem is solved with the thermal conductivity equation by using the boundary conditions of the temperature discontinuity. 2) Heat transfer in a state as in 1) but with a lesser rarefaction of the gas, here, neither the convection flows nor the slip and the temperature discontinuity along the wall can be neglected. The equations of motion, continuity, and heat transfer have to be applied and the boundary conditions of the slip and the temperature discontinuity have also to be taken into account. 3) Heat transfer in the viscous state, i.e., the convection flows are significant but the temperature discontinuity and the slip along the wall are practically not present. This problem is solved with the same equations as that of 2) however with the use of the boundary conditions for "adhesion". On the basis of an analytical solution of the problem, the temperature fields of a heated vertical plate, were obtained for pressures ranging from one atmosphere to 0.01 mm Hg. The

Card 3/4

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Basic regularities of heat...

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temperature fields for analogous conditions are also found experimentally and compared with theoretical results. A. A. Pomerantsev, D. R. Kayt, A. D. Madden, E. L. Fayret, R. Pek, V. Vagen and R. Verlayn are mentioned. There are 4 figures and 11 Soviet-bloc references.

ASSOCIATION: Institut energetiki AN BSSR (Institute of Power Engineering of the AS BSSR)

SUBMITTED: March 2, 1961

Card 4/4

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CIA-RDP86-00513R000410310007-5

34118 S/124/62/000/001/009/046 D237/D304

24.5200 (also 1498) AUTHOR: Devoyno, A. N.

TITLE: Investigating heat exchange in vacuum

Referativnyy zhurnal, Mekhanika, no. 1, 1962, 19, abstract 1B126 (Tr. In-ta energ. AN BSSR, PERIODICAL: 1960, no. 11, 31-39)

Processes of heat transfer in a rarefied gas at tempera-TEXT: tures up to 250°C are investigated, and a thermistor is used as a working device. The aim of the experimental investigation was the determination of heat-exchange coefficients between semiconductor resistors and rarefied gas under various working conditions at various temperatures and at various degrees of rarefaction of gas. Heating electrodes, between which a device under test is placed, are inserted into the evacuated space under the bell-jar, and semiconductor devices are heated by d.c. current from a battery supply. Pressure under the bell-jar was varied

Card 1/3

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34118 S/124/62/000/001/009/046 D237/D304

Investigating heat exchange

from 1 atm. down to 10^{-3} mm Hg. Temperatures of the thermistor and surrounding space were measured by means of thermocouples. A thermistor type TCT-0.5 (TST-0.5) was used as a working device (a cylinder of 18.5 mm in length and 7.7 mm in diameter), and its ends were thermally insulated so that only the side surface took part in heat exchange. From the known temperatures of the device and of the surrounding medium (at a distance of 150 mm from the surface), the amount of electric power dissipated on the thermistor, and its surface, the coefficient of heat transfer, can be determined for different gas pressures. The measured coefficient did not include the radiant component, which was calculated theoretically. A graph is given of values of the coefficient v, pressure at constant temperature. The coefficient decreases with decreasing pressure due to decrease of convective component. At 50 mm Hg., the convective component ceases to be significant, and the heat transfer coefficient remains constant down to 0.2 mm $H_{\rm g}$. This is related to the fact that the thermal conductivity

Card 2/3

Investigating heat exchange

CIA-RDP86-00513R000410310007-5

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coefficient is independent of pressure. At still lower pressures, the heat transfer coefficient decreases again as under these conditions the free path of the molecules and the size of the device are of the same order, and the thickness of the laminary layer increases together with the temperature discontinuity (thickness of the laminary layer is equal to free path). Temperature was measured at a definite distance from the surface (1 and 15 mm at 75 C = temp. of the device). On decrease of pressure down to \sim 100 nm Hg., the temperature remains constant; then it rises and reaches a maximum at $p \sim 10 - 1$ mm Hg., after which it falls until at $p \sim 0.01$ mm Hg. it reaches the values corresponding to normal pressure. The temperature rise is connected with the reaction between the molecules and the surface layer, while the fall of temperature is related to the influence of the laminary layer and temperature discontinuity. _ Abstracter's note: Complete translation. 7

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S/262/62/000/004/010/024 1014/1252

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AUTHOR: Devoyno, A. N.

TITLE:

Application of the electro-thermal analogy method for investigation of the heat transfer process in a rarefied gas

PERIODICAL: Referativnyy zhurnal, Silovyye ustanovki, no. 4, 1962, 37, abstract 42.4.239 "Tr. In-ta energ." AN BSSR", 1960, no. 11, 40-50

TEXT: The underlying principle of electro-thermal analogy method is that the thermal system, in which the heat exchange process is studied, is replaced by an equivalent electrical scheme, whose parameters vary depending on the working conditions of the thermal system. A table is given, in which the "body-rarefied gas", system considered in the investigation of heat exchange under vacuum, is replaced by an electrical scheme. For calculating the electrical scheme the characteristics of each resistance are plotted. An analytical expression was obtained for the volt-ampere characteristics contained in the equivalent system, by means of the heat transfer relationships in different regions of the body-rarefied gas system. The electro-thermal analogy method is promising in investigating non-stationary conditions of heat transfer in rarefied gases.

[Abstracter's note: Complete translation.]

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ACC NR: AF6033068	(A)	SOURCE CODE:	UR/0201/66/000/003/0063/0075
AUTHOR: Devoyno, G. N.			
ORG: Belorussian Poly	cechnic Institu	te (Belorusskiy pol	itekhnicheskiy institut)
TITIE: Calculation of wear endurance	bearing struct	ures for transportat	tion machinery for limited
SOURCE: AN BSSR. Vest	si. Seryya fizi	ka-tekhnichnykh navi	1k, no. 3, 1966, 63-73
TOPIC MAGS: cyclic st transportation equipment	rength, fatigue nt/ 19KnGS stee	strength, endurance	e test, wear resistance,
under time-varying str number of cycles under limited number of chan loads that can be appl period, but only for a To this purpose, sever to short-term enduranc endurance as a functio tabulated for the conv cycles at another. Se	esses, and the which the mate ges in stress, ied when the ma limited number al methods are e on the basis n of the number ersion from a n weral variants	limit of wear endura- rial is not destroy This article deals chinery is not expe- of applications or discussed of conver- of cycles. Transfe- umber of cycles at of the calculations	material to withstand damage ance is defined as the maximum ed after a practically un- essentially with the maximum oted to last for an indefinite for a limited period of time. ting from long-term endurance ical expressions for the wear ormation coefficients are one load to the number of are given. Particular ex- durance of the material for

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Card	2/	<u>i</u>													

DEVOMNO, L.V.

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Specific prevention of dysentery by total-antigen vaccines. Zhur.nikrohiol.epid. i immun. 30 no.4:23-27 Ap 159. (MIRA 12:6) 1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMI SSSR. (DYSENTERY, BACILLARY, prev. & control, vacc. (Rus))

DEVOYNO, L.V.

Studies on immunological changes in human subjects vaccinated with the IEM chemical combined and precipitated polyvaccine with special reference to dysentery antigens. Zhur.wikrobiol.epid.i immun. 30 no.7:10-14 JI '59. (MIRA 12:11)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR. (DYSENTERY, BACILLARY - immunology) (VACCINES)

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DEVOYNO, L. V. Cand Med Sci -- (diss) "Effectiveness of antidysentery immunization with vaccines of complete antigens." Mos, 1959. 14 pp (Acad Med Sci USSR. Inst of Epidemiology and Microbiology im Honored Academician N. F. Gamaleya), 200 copies (KL, 44-59, 129)

-47-

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410310007-5

KORSHAKOVA, A.S.; BOLDYREV, T.Ye.; ALEKSANYAN, A.B.; SHATROV, I.I.; LEYTMAN, L.V.; FROLOV, V.I.; SEMINA, N.A.; DEVOYNO, L.V.; SIZINTSEVA, V.P.; BATURINA, L.M.; ABAKAROV, U.A.; GRINAVTSEVA, V.P.; MEDZHIDOV, V.; KORSHUNOVA, N.A.

> Studies on the reactogenic properties of Gamaleia IEM polyvaccine. Zhur.mikrobiol.,epid.i immun. 30 no.11:37-41 N '59. (MIRA 13:3)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamale: AMN SSSR. (DYSENTERY BACILLARY immunol.) (TYPHOID immunol.) (PARATYPHOID FRVERS imminol.,) (TRTANUS immunol.) (VACCINATION)

CIA-RDP86-00513R000410310007-5

MESHALKIN, Ye.N.; FUKS, B.B.; STEFANOVICH, L.Ye.; SERGIYEVEKIY, V.S.; KONSTANTINOVA, I.V.; DEVOYNO, L.V.; MEDVEDEV, I.A.

> Using proteinase-treated collagenous and elastic "carcasses" from heterologous material for vascular grafts. Izv. Sib. otd. AN SSSR no.5:129-132 162. (MIRA 18:2)

1. Institut eksperimental'noy biologil i meditsiny Sibirskogo otdeleniya AN SSSR, Novosibirsk,

FUKS, B.B.; KONSTANTINOVA, I.V.; STEFANOVICH, L.Ye.; DEVOYNO, L.V.; SERGIYEVSKIY, V.S.; FALK, I.G.; MODYAYEV, V.P.

> Influence of some factors on the growth and differentiation of the connective tissue in the regeneration of the cornea, aorta, tendons and bones in biological frameworks. Dokl. AN SSSR 152 no.5:1260-1262 0 '63. (MIRA 16:12)

1. Institut eksperimental'noy biologii i meditsiny Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom N.N.Anichkovym.

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ACCESSION NR: AR4018343 8/0137/64/000/001/1121/1121 SOURCE: RZh. Metallurgiya, Abs. 11784 AUTHOR: Alferova, N. S.; Devterov, V. M.; Fesenko, G. M. TITLE: Heat-treatment of EI852 steel in the production of pipe CITED SOURCE: Sb. Proiz-vo trub. Vy*p. 9, M., Metallurgizdat, 1963, 106-113 TOPIC TAGS: Steel processing, pipe-rolling, EI852 steel; heat treatment, structural conversion, steel hardness TRANSLATION: For the purpose of determining the optimum schedule of heat-treating E1852 steel composed (in%) of C 0.10-0.15; Si 1.4-2.1; Cr 12-14, Mo 1.2-2.0, Mn less than 0.6, Ni less then 0.5, which is used extensively in the production of pipe, structural conversions and changes in the hardness of hot and cold-rolled pipe of this steel with hardening at 800-1,200° were studied. The critical point of EI852 steel, beginning with which, during heating, there takes place a partial conversion of ferrite-carbide mixture into austenite, equal to approximately 925 degrees. To obtain satisfactory plasticity in longitudinal and lateral directions, to remove percussion marks of hot-rolled Me and to form the structure of grainy Card 1/2

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ACCESSION NR: AR4018343

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perlite in the sections of products of conversion of austenite, for hot-rolled pipe of EI852 steel, it is recommended to use double heat-treatment according to the following schedule: heating from 1,000-1,050 degrees, with subsequent drawing at 800-820 degrees. It is recommended to use drawing at 800-830 degrees with a time interval of more than one hour as a form of intermediate heat treatment for coldrolled pipe.

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Card 2/2

DEVIYAKOVICH, G.M., kand. tokhn. nauk; MELINIK, D.M., kand. tekhn. nauk; NEDASHKOVSKIY, P.P., nauchnyy sotrudnik

> Mechanization of track cleaning operations. Put' i put, khoz. 9 no.10:20-22 165. (MIRA 18/10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta Ministerstva putey soobshchenija,

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ACC NR: AP6024187 SOURCH COLE: UR/0424/66/000/102/001	1/0016
AUTHORS: <u>Devyanin, Ye. A.</u> (Moscow); <u>Dem'yanovskiy</u> , <u>A.</u> P. (Moscow) 57	5
ORG: none B	
TITLE: Determination of absolute angular velocity, distance to the center of attraction, and construction of the vertical by inertial means	
SOURCE: Inzhenernyy zhurnal. Nekhanika tverdogo tela, no. 2, 1966, 11-16	
TOPIC TAGS: inertial guidance, algebraic equation, spacecraft motion, motion equation	ustion
ABSTRACT: A body of mass M is considered moving in the Newtonian field of an attracting center at O_1 . The coordinate system $O_2 \eta_2^*$ is fixed with the hody (the	B
origin 0 is not necessarily the center of mass). The components of the absolute sngular velocity vector $\vec{\omega}$ of the body along the coordinate axes are denoted by r and the direction cosines of the vector $\vec{\rho}$ (0,0) of length γ are x, y, z. Four	p, qi
triplets of newtonmeters oriented along the $[\xi, \eta, \zeta]$ axes are mounted at \Im and the points $l_1 = l\xi$, $l_2 = l\eta$; $l_3 = l\zeta$. Then	B
$p^{2} + k(1 - 3x^{2}) = a_{1}, pq - 3kxy = b_{1}$	
where the symbol (xyz, pqr, 123) denotes cyclic permutation of the variables and	
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indices; a_1 , b_1 (12 $k = \mu M / \rho^3$; and μ but to find the absorbed to find the absorbed to find the absorbed to find the set of this pro- useful comments. C	is the attra solute angular this system of rocedure are i	action con r velocity f algebrai Investigat	stant. De , distance c equation ed. The a	tailed calc to the att s. All the uthors that	ulations racting solutio	ard carrie center, and	las
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ACC NRI AP6C11126	SOURCE CODE: UR/0424/65/00 5/001/0014/001
AUTHORS: Andreyev, V. D. (MDSCOW)); Devyanin, Ye. A. (Moscow); Dem'yanovskiy, A. P.
ORG: none	22
TITLE: The theory of inertial sys	stems containing no gyroscopic sensing ulements
그는 것 같은 것 같	hanika tverdogo tela, no. 1, 1966, 14-19
TOPIC TAGS: inertial navigation e analysis, gravitational potential,	equipment, ordinary differential equation, error , Laplace equation
moving near the terrestrial surface	estigated of using an inertial guidance system η noe of gyroscopic sensing elements. For an object ce, it is assumed that there exists a trihedron $\gamma \operatorname{Ox}_1 \operatorname{x}_2 \operatorname{x}_3$. To this trihedron are attached four
origination on the sensitiv	re muss of one of which is at point 0, and the others shown that for a gravity potential satisfying the
Survey of the complete info	Drmation obtained from these Newtonometers (without
1	$\frac{n_1^o}{2} = v_1^\circ + \omega_1 v_2 - \omega_3 v_3 - \frac{\partial^2 v_0}{\partial x_1^\circ}$

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L 27570-66 ACC NR: AP6018484 The enhanced protection resulting from the use of the two agents is due not only to the difference in mechanism of action of the agents but to the fact that they provide differentiated protection of various systems AET and AETP protected bone marrow and intestine equally, whereas 5-MOT protected only bone marrow. The synthesis of the compounds was carried out in the laboratories of Academician I. L. Knunyanets (AETP), Professor N.N. Suverov (5-MOT) and Candidate of Chemical Sciences V. H. For eyev (AET). The author thanks them for making possible the preparations. Orig. art. has: 2 figures and 2 tables. [JPRS] SUB CODE: 06 / SUBM DATE: 25Sep64 / ORIG REF: 017 / OTH REF: 009 ii: Card

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AUTHOR: Devyania, Ye. A. (TITLE: Equations of automati	Moscow)	$\mathcal{L}^{(p)}$
	Tekhnicheskaya kibernetika, no. 1, 1965	<u>た</u> 150-157
AB5TRACT: Conical-scanning measuring devices of optical for considered. It is proven that, switching function of the syn	automatic tracking systems which are us automatic tracking systems which are us ollowers and also in angular-tracking rada with symmetrical channels and a sinusoid thronous detector, the set of differential s ducible by adopting a rotating-coordinate	rs are al quations
In the case of low scanning frequencies and scanning frequencies	quencies or high gains, the effects of inpu ency should be taken into account. Stabili re described. Orig. art. has: 4 figures	device y regions
Cord 1/2		


SATIN, P.D.; DEXANOV, D.

÷.,

Postintubation syndrome, Eksper, khir, 1 anest, 9 no.5:80-82 S-0 164. (MIRA 18:11)

1. Institut skoroy pomoshchi imeni N.I.Firogova (glavnyy vrach Khr. Zdravkov), Sofiya.

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STRIZHAK, V.I.; DEVYATISIL'NYY, V.I.; PODGAYEVSKIY, I.A.

Production of pipe in foreign countries for the petroleum industry. Met. i gornorud. prom. no.3:85-88 My-Je '63. (MIRA 17: (MIRA 17:1)

Ukrainskiy nauchno-issledovatel skiy trubnyy institut.

BRODSKIY, V.M.; DEVYATKINA, Z.T.

Experimental service station. Transp. i khran. neftl i nefteprod. no.ll: 34-36 164. (MIRA 18:1)

1. Spetsial'moye konstruktorskoye byuro "Transneft'avtomatika".

DEVYATKOV, Nikolay Dmitriyevich; PERESLENI, Aleksandr Aleksandrovich, dots.; IL VOVSKAYN, N.M., ass., red. والإستراجات والمراج

> [Industrial electric vacuum technology]Tekhnologiia elektrovakuumnogo proizvodatva. Moskva, Mosk. energeticheskii in-t, (MIRA 16:4) Pt.3., no.1. 1962. 49 p.

1. Chlen-korrespondent Akademii nauk SSSR (for Devyatkov). (Electronic apparatus and appliances) (Electron tubes)

DEVYAKOVICH, Georgiy Ignat'yevich; SINKHO, Kh.S., red.; KAYDALOVA, K.D., tekhn.red.

> [Railroad transportation] Zheleznodorozhnyi transport. [Railroad transportation] mereshouse vo, 1959. 41 p. Khabarovsk, Khabarovskoe knizhnoe izd-vo, 1959. 41 p. (MIRA 14:1) 1. Kommunisticheskaya partiya Sovetskogo Soyuza. Khabarovskiy krayevoy komitet. Otdel propagandy i agitataii. (Khabarovsk Territory--Reilroads)

DEV VIKOVICH, G. M. Mekhanizateiis root po tekushehemu soderzhaniju puti. [Mechanization of pontine maintenance tracks 7. Pod red. G. V. Liders. Moskva, Gor. transp. zhel-dor. izd-vo, 1949. 271 p. illus. DLC: TF240.D45

SO: <u>SOVIET TRANSPORTATION AND COLOUNICATIONS, A NIBLICGRAPHY</u>, Library of Congress Reference Department, Washington, 1952, Unclassified.

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CIA-RDP86-00513R000410310007-5

BELOGORTSEV, Petr Grigor'yevich; DEV'YAKOVICH, G.M., inzh., retsen-zent; SURODEYEV, V.P., inzh. red.; USENKO, L.A., tekhn. red.

[Dumper-type hopper cars; design, operation, repair] Khopper-dozatory; ustroistvo, ekspluatatsiia i remont. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putaj sochshchenija, 1962. 78 p. (MIRA 15:3) (Railroads--Freight cars) (Railroads--Track)

DEVYANIN, Ye.A. (Moskva)

Properties of the first approximation equations of the averaging method. Prikl.mat. i mekh. 22 no.5:713-719 S-U '58. (MIRA 11:11) (Oscillations) (Differential equations)

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DEYANOV, V.Ya.

Characteristics of asthenic conditions in children and adolescents with rheumatic fever. Pediatriia 37 no.4:17-21 Ap '59. (MIRA 12:6) 1. Iz detskov kliniki (zav. - prof.G.Ye.Sukhareva) Nauchno-issledovatel'skogo instituta psikhiatrii (dir. - prof.V.M. Banshchikov) Ministerstva zdravookhraneniya RSFSR. (RHEUMATIC FEVER, compl. asthenic cond. in child. & adolescents (Rus)) (ASTHENIA, in inf. & child in child. & adolescents with rheum. fever (Rus))

DEVYAT V, Boris Nikolayevich; I.Eballe, G. 19, 196.

[Theory of transient processes in technological devices from the standpoint of control suggestives] Teoria perekhodnykh protsessov v tekhnologicheskikh upparatakh s tochki zrenija zadach uprovlenija. Reyesibirsk, Red.izd. otdel Sibirskogo otd-njia AN 4234, 3954. 322 p. (MIR/ 17:00)

- 1. DEVYAT, Y. G.
- 2. USSE (600)

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7. Floating Chuck for Reaming, Machine Tools and the Bit No. 11, Nov 52

9. Compilation of Information of the USSR Machine and Machine to is Industry Conteined in Soviet Publications.

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CIA-RDP86-00513R000410310007-5

MAKEYEV, M.F., inzh.; DEVYATAYEV, M.P., Gercy Sovetskogo Soyuza Rapid transportation of passengers on inland waterways and outlook for its growth. Rech. transp. 17 no. 7:11-13 J1 '58. (MIRA 11:8)

1. Kapitan teplokhoda "Raketa" (for Devyatayev). (Inland water transportation) (Motorships)

DEVYATER, A. Yu.; NEVYADONSKAYA, N. V.

Grasses

Special seed farm's work practice with grasses. Norm. buga 4, No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

AUTHOR: Devyaterikov, I. P. (Moscow) AUTHOR: Devyaterikov, I. P. (Moscow) CITILE: Correcting circuits in variable-parameter <u>Fulse systems</u> SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika. no. 1, 1966, 146-153 FOPIC TAGS: automatic control design, circuit design, feedback amplifier ABSTRACT: A great deal of attention is being paid to problems of the synthesis of pulse automatic systems. The problem is considered solved when such characteristics of the correcting circuit are found that the characteristics of the corrected system satisfy a specific quality criterion or minimize it. For stationary systems the sought characteristic of the system; this method is applicable to both stationary and nonstationary systems. The problem of the synthesis of nonstationary pulse sys- tems is quite complicated, and there are no published works available on the subject. The present author proposes methods for finding the pulse characteristic of the correcting to the pulse characteristic of the controlled plant. This characteris- tic may be found by solving either the variational problem, or the Wiener problem. Methods for finding the desired pulse characteristic are not studied. In order to	C NR: AP6008530	SOURCE CODE: UR/0280/66/000/001/0	0146/0153
DRG: none TITLE: Correcting circuits in variable-parameter <u>Fulse systems</u> SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika. no. 1, 1966, 146-153 TOPIC TAGS: automatic control design, circuit design, feedback amplifier ABSTRACT: A great deal of attention is being paid to problems of the synthesis of pulse automatic systems. The problem is considered solved when such characteristics of the correcting circuit are found that the characteristics of the corrected system satisfy a specific quality criterion or minimize it. For stationary systems the sought characteristic is usually a transfer function. Another method is the use of the pulse characteristic of the system; this method is applicable to both stationary and nonstationary systems. The problem of the synthesis of nonstationary pulse sys- tems is quite complicated, and there are no published works available on the subject. The present author proposes methods for finding the pulse characteristic of the correcting circuit according to a known desired pulse characteristic of the system and according to the pulse characteristic of the variational problem, or the Wiener problem.	THOR: Devyaterikov, I.	P. (Moscow)	73
SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika. no. 1, 1966, 146-153 TOPIC TAGS: automatic control design, circuit design, feedback amplifier ABSTRACT: A great deal of attention is being paid to problems of the synthesis of pulse automatic systems. The problem is considered solved when such characteristics of the correcting circuit are found that the characteristics of the corrected system satisfy a specific quality criterion or minimize it. For stationary systems the sought characteristic is usually a transfer function. Another method is the use of the pulse characteristic of the system; this method is applicable to both stationary and nonstationary systems. The problem of the synthesis of nonstationary pulse sys- tems is quite complicated, and there are no published works available on the subject. The present author proposes methods for finding the pulse characteristic of the correcting circuit according to a known desired pulse characteristic of the system and according to the pulse characteristic of the controlled plant. This characteris- tic may be found by solving either the variational problem, or the Wiener problem.	G: none	, i 15	
TOPIC TAGS: autometic control design, circuit design, feedback amplifier ABSTRACT: A great deal of attention is being paid to problems of the synthesis of pulse automatic systems. The problem is considered solved when such characteristics of the correcting circuit are found that the characteristics of the corrected system satisfy a specific quality criterion or minimize it. For stationary systems the sought characteristic is usually a transfer function. Another method is the use of the pulse characteristic of the system; this method is applicable to both stationary and nonstationary systems. The problem of the synthesis of nonstationary pulse sys- tems is quite complicated, and there are no published works available on the subject. The present author proposes methods for finding the pulse characteristic of the correcting circuit according to a known desired pulse characteristic of the system and according to the pulse characteristic of the controlled plant. This characteris- tic may be found by solving either the variational problem, or the Wiener problem.	TLE: Correcting circuit	s in variable-parameter <u>fulse</u> systems	
ABSTRACT: A great deal of attention is being paid to problems of the synthesis of pulse automatic systems. The problem is considered solved when such characteristics of the correcting circuit are found that the characteristics of the corrected system satisfy a specific quality criterion or minimize it. For stationary systems the sought characteristic is usually a transfer function. Another method is the use of the pulse characteristic of the system; this method is applicable to both stationary and nonstationary systems. The problem of the synthesis of nonstationary pulse sys- tems is quite complicated, and there are no published works available on the subject. The present author proposes methods for finding the pulse characteristic of the correcting circuit according to a known desired pulse characteristic of the system and according to the pulse characteristic of the controlled plant. This characteris- tic may be found by solving either the variational problem, or the Wiener problem.	URCE: AN SSSR. Izvesti	ya. Tekhnicheskaya kibernetika. no. 1	1, 1966, 146-153
pulse automatic systems. The problem is considered solved when such characteristics of the correcting circuit are found that the characteristics of the corrected system satisfy a specific quality criterion or minimize it. For stationary systems the sought characteristic is usually a transfer function. Another method is the use of the pulse characteristic of the system; this method is applicable to both stationary and nonstationary systems. The problem of the synthesis of nonstationary pulse sys- tems is quite complicated, and there are no published works available on the subject. The present author proposes methods for finding the pulse characteristic of the correcting circuit according to a known desired pulse characteristic of the system and according to the pulse characteristic of the controlled plant. This characteris- tic may be found by solving either the variational problem, or the Wiener problem.	PIC TAGS: autometic con	trol design, circuit design, feedback	amplifier
Cord 1/2	Ise automatic systems. The correcting circuit atisfy a specific quality bught characteristic is un the pulse characteristic on ad nonstationary systems. The present author propose present author propose precting circuit according ad according to the pulse is may be found by solving	The problem is considered solved when are found that the characteristics of v criterion or minimize it. For stati- usually a transfer function. Another of the system; this method is applicab . The problem of the synthesis of non , and there are no published works ava es methods for finding the pulse chara- ing to a known desired pulse character e characteristic of the controlled pla ne either the variational problem, or	such characteristics the corrected system onary systems the method is the use of le to both stationary stationary pulse sys- ilable on the subject. cteristic of the lstic of the system nt. This characteris- the Wiener problem.

1 35985-66 ACC NR: AP6008530 0 illustrate the method proposed, the author presents examples of the determination of equations of correcting circuits in a forward system and in a feedback system. The methods proposed in this article solve the problem of the synthesis of linear pulse systems with constant as well as with variable parameters. In conclusion, the author thanks Ya. Z. Tsypking for statement of the problem and constant interest in the work. Orig. art. has: 5 figures and 9 formulas. SUB CODE: 09 / SUBM DATE: 02Mar64 / ORIG REF: 004 / OTH REF: 001 nu Card 2/2

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CC NR: AP7004245	SOURCE CODE: UR/0103/67/000/001/0122/0132
UTHOR: Devyaterikov	(Mosrow) (Mosrow) , I.P. ; Fropoy, A.I. ; Tsypkin, Ya.Z. (Mosrow)
RG: none	
ITLE; On recurrence	algorithms for teaching pattern recognizion
OURCE: Avtomatika i	telemekhanika, no. 1, 1967, 122-132
OPIC TAGS: pattern ; pproximation method,	recognition, learning system, stochastic PROCESS, teaching_algorithm, Automatic machine TEACHING
and schemes for approach to the general approach recognition to Tsypkin (Avtor The separating where { $\phi v(x)$ } coefficients. minimization of	out that many articles have been published recently in ar algorithms for teaching pattern recognition to automata or their realization have been proposed, but a more general the solution of this kind of problems is necessary. A such to deriving recurrence algorithms for teaching pattern o automata is presented, utilizing the results of Ya. L. matiki i telemekhanika, v. 26, no. 11, 1965, 1947-1950). function $Y = f(x)$ is approximated by a finite sum are linearly independent functions and C_0 are unknown The problem of determining the $f(x)$ is reduced to the of a certain functional which is taken as the mathematical function $F(f(x)-f(x))$. Finally, the problem is reduced n of a certain regression equation. Two algorithms for

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SOLUNINA, I.A.; SOROKINA, R.A.; DEVYATIN, V.A.

Determination of 3-methyl-2-penten-4-ym-1-ol in the presence of 3-methyl-1-penten-4-yn-3-ol. Med.prom. 15 no.5:60-61 My '61. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminyy institut. (PENTENYNOL)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410310007-5

DEVYATISIL'NAYA, F.I., agronom po zashchite rasteniy (Pereshchepinskiy rayon, Dnepropetrovskoy oblasti); FILIPPOV, N.A.

On demonstration farms. Zashch. rast. ot vred. i bol. 7 no.1:36 162.

1. Zaveduyushchiy otdelom zashchity rasteniy Moldavskogo instituta oroshayemogo zemledeliya i ovoshchevodstva, Tirsspol;, Moldavskoy SSR (for Filippov). (Plants, Protection of)

KORNEW, N.A., kand, tekhn, nauk; KUDRYAVPSEV, A.J., kand, tekhn, naub; LITVIN, 1.5., inch.; EEVYATISIL'NYY, G.I., inzt. Notional Constitution Station States of Constitution States Constitution

Keramelt concrete wall panels 12 m. long. Prom. stroi. 41 no.8:33-37 Ag 164. (MIRA 17:11)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410310007-5

PLYATSKOVSKIY, O.A., kand.tekhn.nauk; Prinimali uchastiye: OSLON, N.D.; NODEV, E.O.; <u>DEVYATISIL'NYY, V.I.</u>; SULTINSKIKH, A.N.; SHANIN, P.K.; KUKARSKIKH, V.I.; RAKHNOVETSKIY, L.Y.; DUYEV, V.N.

> New technological processes used in rolling 102-170 mm. clameter pipes of stainless steel 1Kh18N9T. Biul.nauch.-tekh.inform.VNITI no.4/5:24-30 '58. (MIRA 15:1 (MIRA 15:1)

(Pipe mills)

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"APPROVED FOR RELEASE: 06/12/2000

s/137/62/000/003/092/191 A006/A101

Fomichev, I.A., Devyatisil'nyy, V.I. AUTHORS:

TITLE:

A method of determining the forward-flow in pipe rolling on a pllger mill

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 30, abstract 3D167 (V sb. "Proiz-vo trub", no. 4, Khar'kov, Metallurgizdat, 1961, 50 - 62

The magnitude of the coefficient of forward-flow during the rolling TEXT: of a pipe blank with the font cone of pilger mill rolls (striking block) is more expediently determined by a method which is based on measuring the speed of roll--back of the blank by the rolls and their angular velocity, than by the conventional method of prick-punching the rolls. The magnitude of the coefficient of forward-flow with the polishing section can be determined both by measuring the speed of roll-back of the blank by the rolls and their angular velocity, and by means of prick-punching the rolls. To calculate approximately the magnitude of the coefficient of forward-flow during rolling of the blank with the front cone

Card 1/2

A method of determining.....

S/137/62/000/003/092/191 A006/A101

of the rolls, a method can be recommended which utilizes the results of measuring the wall thickness of the pilger mill head.

K. Ursova

[Abstracter's note: Complete translation]

Card 2/2

FOMICHEV, I.A., dozter tekin. mass: JC (W1814 NY /, V.I., insh. Davies for determining the actual emonat of food in the pilgroup rolling of pipe. Froiry. trul no. 12:38-40 164. (MIRA 17:12)

USSR/Cultive	ate	d Plants - Grains.	М.
Abs Jour	:	Ref Zhur - Bioli, No 4, 1958, 15498	
Author	:	N.F. Bogach, Ye.M. Devyatisil'nyy	
Inst Title	•	An Attempt at the Two-Stage Harvesting of Grain Crops in Kolkhozes of the Kotovskaya Machine and Tractor Station Zone. (Opyt razdel'noy uborki zernovykh kul'tur v kolkhozak zony Kotovskoy MTS).	
Orig Pub	:	Vestn. s kh. nauki, 1957, No 5, 27-30	
Abstract	:	No abstract.	

Card 1/1

m. ZALEVSKIY, A., agronom; DEWYAWISIL'NYY, Ye., ekonomist

> Efficient method for the mechanized cultivation of sugar beets. Nauka i pered.op.v sel'khoz. 9 no.9:9-11 S '59. (MIRA 13:2)

1. Opornyy punkt Vaesoyuznogo nauchno-issledovatel'skogo instituta akonomiki sel'skogo khozyaystva pri Kotovskoy remontno-tekhnicheskoy stantsii. (Sugar beats)

ZALEVSKIY, Anatoliy Worll'yevich, kand.sel'khoz.nauk; DEVYATISIL'NYY Yevgeniy Nikolayevich, agronom-ekonomist; PANIN, N.S., red.

[Economics of the efficient use of machinery on collective farms] Ekonomika ratsional'nogo ispol'zovanija tekhniki v kolkhozakh. Moskva, Ekonomika, 1964. 141 p. (MIRA 17:5)

1. Nauchnyy sotrudnik TSentral'nogc ekonomicheskogo muchno-issledovatel'skogo instituta pri Gosplane RSFSR (for Zalevskiy).

DEVYATIVA, L.N.; TER-KARAPETYAN, A.Z.

Readers' conference. Zhur.mikrobiol.epid.i immun. 30 no.8:157-158 Ag '59. (MIRA 12:11) (BACTERIOLOGY, MEDICAL--PERIODICALS)

DEVYATKA, D. G.

"Second Intra-Province Conference of Physicians Specializing in Hygiene and Public Health," Gig. i San., No.8, 1952

DEVYATKA, D. G.

"The Effect of Open Burning of Natural Gas at Industrial Installations on the Health of Workers." Cand Med Sci, L'vov Medical Inst, L'vov, 1954. (RZhKhim, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

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DEVYATKA, D.G.

*** Exactly たんだかからない ひかいのうび しょうしょうかい しょうしゅう Incomplete combustion of natural gas in four-burner stoves manufactured by the Loningrad Gas Appliance Factory. Gig. 1 san. no.7:39-40 J1 '54. (MLRA 7:8)

> 1. Iz kafedry obshchey gigiyeny L'vovskogo meditsinskogo instituta. (GASES,

*illuminating gas, incomplete combustion of natural gas in stoves)

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CIA-RDP86-00513R000410310007-5

DEVYATKA, D.G., kandidat meditsinskikh nauk

Microclimatic conditions in bathrooms with gas water heaters. (MLRA 9:7) Vrach.delo no.2:199-200 1.56.

1. Kafedra obshchey gigiyeny (zaveduyushchiy V.Z.Martynyuk) L'vovskogo meditsinskogo instituta (BATHROOMS)

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DEVIATEA, D.G., kandidat meditainskikh nauk

Practical studies in school hygiene in a pedagogical institute. Gig. 1 san. 21 no.9:54-56 8 156. (MLRA 9:10)

1. Iz L'vovskogo pedagogicheskogo instituta (TEACHERS, educ. practical study on school hygiene in teachers' colleges in Russia)

DEVYATEA, D.G., kandidat meditsinskikh nauk Hygienic evaluation of gas water heaters. Gig. i san. 21 no.11: 67-69 ¥ 156. (MIRA 10:2) 1. Is kafedry obshchey gigiyeny L'vovskogo meditsinskogo instituta.

(HYGIERE of gas water heaters) (HOUSING hygionic aspects of gas water heaters)

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CIA-RDP86-00513R000410310007-5

DEVYATKA, D.G., kandidat meditsinskikh nauk THE REAL PROPERTY OF THE PARTY Etiological role of carbon monoxide in the development of hypotension. Terap.arkh. 28 no.7:29-32 '56. (MLRA 10:1) 1. Iz kafedry obshchey gigiyeny (zav. - prof. V.Z.Martynyuk) L'vovskogo meditsinskogo instituta. (HYPOTENSION, etiol. and pathogen. carbon monoxide pois.) (CARBON MONOXIDE, pols. causing hypotension)

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DEVYATKA, D.G., kandidat meditsinskikh nauk (L'vov)

> Methods for preventing chronic carbon monoxide poisoning in apartments with natural gas heating. Tel'd. i akush. 22 no.2:45-48 F 157 (MLRA 10:5) (CARBON MONOXIDE -- TOXICOLOGY)
DEVYATKA, D.G., kand.med.neuk

Hereby of the study of carbon monoxide poisoning. Vrach.delo (MIRA 11:5) no.3:321-322 Mr'58

1. Kafedra obshchey gigiyeny (zav. - prof. V.Z. Martynyuk) L'vovskogo meditsinskogo instituta. (CARBON MONXIDE--PHYSIOLCOICAL KFFECT)

DEVYATKA, D.G., kand.med.nauk

and the second second

Effect of kitchen ventilation on the combusion products of natural gas in the air. Vrach.delo no.10:1093-1095 0 '58 (MIRA 11:11)

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1. Kafedra obshchey gigiyeny (sav. - prof. V.Z. Martynyuk) L'yovskogo meditsinskogo instituta. (CARBON MONOXIDE) (KITCHENS -- VENTILATION)

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410310007-5

DEVYATKA, D.G. (L'VOV)

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Effectiveness of the action of exhaust ventilation canals in kitchens with gas service. Vod.i san.tekh. no.7:16-17 J1 '59. (MIRA 12:9)

(Kitchens) (Dwellings--Heating and ventilation)

DEVYATKA, D.G., kand.mod.nauk

Characteristics of natural ultraviolet radiation in Lyov. Vrs.ch.delo (MIRA 13:2) no.10:1069-1070 0 '59.

1. Kafedra obshchey gigiyeny (saveduyushchiy - prof. V.Z. Marynyuk) L'vovskogo meditsinskogo instituta. (LYOV--ULTRAVIOLET RAYS)

DEVYATKA, D.G., kand.med.nauk; ZAL'F, Z.G.

Observations on the organization of medical sanitary service at a boarding school. Pediatriia 37 no.1:73-76 Ja '59. (MIRA 12:1) 1. Iz L'vovskogo meditsinskogo instituta i shkoly-internata No.1 g. L'vova. (SANITATION med. samit. serv. in boarding school (Rus)) (SCHOOLS

boarding school, med. sanit. serv. (Rus))

DEVYATEA, D.G., kand.med.nauk

Pollution of the air of living quarters by carbon monoxide as a result of burning natural gas. Gig.i san. 25 no.1:90 Ja '60. (MIRA 13:5) 1. Iz kafedry obshchey gigiyeny L'vovskogo meditsinskogo instituta. (AIR POLLUTION)

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DEVYATKA, D.G., kand.med.nauk

Data on the characteristics of natural ultraviolet radiation in Internation Versch. delo no. 1:102-104 '61. (MIRA 14:4)

1. Kafedra obshchey gigiyeny (zav. - prof. V.Z. Martynyuk) Livovskogo 1. Kareara oppnome meditsinskogo instituta. (LVOV---ULTRAVIOLET RAYS)

DEVYATKA, D.G., kand.med.nauk

Routine method for studying the loss of natural ultraviolet radiation and the size of these losses in Lvov. Gig. i san, 26 no.4:50-53 Ap '61. (MIR. 15:5)

l. Iz kafedry obshchey gigiyeny L'vovskogo meditsinskogo instituta. (LVOV---ULTRAVIOLET RAYS)

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DEVYATKA, D.G.

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Hygienic characteristics of ultraviolet irradiation in Lvov according to data for 1959. Gig.i san. 26 no.12:87 D '61. (MIRA 15:9) 1. Iz L'vovskogo gosudarstvennogo meditsinskogo instituta. (LVOV-_ULTRAVIOLET RAYS)

DEVYATKA, D.G., dotsent (Vinnitaa)

والتاريب ويتورد بيحجب

Increase in hygiene training for graduates of medical institutes. Sov. zdrav. 22 no.7:18-19'63 (MIRA 16:12)

1. Iz kafedry obshehey gigiyeny Vinnitskogo meditinskogo insti-tuta imeni N.I.Pirogova (dir. - dotsent S.I.Korkhov).

DEVYATKA, D.G.; ALYCHEVA, T.S.

Role of natural ultraviolet radiation in increasing the immunobiological reactivity of the body. Zhur. mikrohiol., epid. i immun. 40 no.10343-46 0 '5). (MIRA 17:6)

1. Iz Vinnitskogo meditsinskogo instituta i L'vovskogo meditsinskogo instituta.

DEVYATKA, Ye.A.; CHUMLYAKOVA, N.K.

Climatic characteristics of the principal districts of Eastern Siberia. Stroi. v raion. Vost. Sib. i Krain. Sev. no.2:81-92 '62. (MIRA 18:7)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410310007-5

DEVYATER, G.G.; SELYARKIN, V.M.; ZORIN, A.D.

Einertics of the thermal decomposition of monosilane, arsine, and monosilane with arsine admixture. Zhur. neorg. khim. 10 no.7;1528-1533 Jl $^{1}65$. (MIRA 18:8) (MIRA 18:8)

1. Gor'kovskiy gosudarstvennyy universitet imeni N.I. Lobachevskoge.

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19. DEVYATEIN AZELITSKIY, I.; DEVIATIN, A.

Three generations, Grandh. av. 14 no.10:28-30 0 '57. (MIRL 10:12) (Aeronautics, Commercial)

DEVYATKIN, A. (g.Leningrad)

Will and mastery. Kryl.rod. 11 no.7:9-10 Jl '60. (HIRA 13:7) (Airplanes--Models)

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DEVYATKIN, A., kand, sel'skokhoz, nauk; BUSEV, G., kand, sel'skokhoz, nauk

Urea increases the protein content of feed. Nauka 1 pered. op. v sel'khoz. 9 no.4:48-49 Ap '59. (MIRA 12:6)

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-78-

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DEVYATKIN, Anetoliy Ivanovich; BENYUMOV, O.M., red.; SAVCHENKO, Ye.V., الم وجر من المراجعة والمراجعة المراجعة tekhn.red.

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MODYANOV, Aleksey Vladimirovich, doktor sel'skokhoz.nauk; DEVYATKIN, Anatoliy Ivanovich, kand.sel'skokhoz.nsuk; SELEZNEV, N.G., red.; PULIN, L.I., tekhn.red.

> [Using synthetic urea in stockbreeding] Ispol'zovanie sinteticheskoi mocheviny v zhivotnovodstve. Tula, Tul'skoe knizhnoe izd-vo, 1960. 60 p. (MIRA 14:1) (Urea) (Cattle---Feeding and feeds) (Sheep--Feeding and feeds)

DEVYATKIN, Anatoliy Ivanovich, kand. sel'khoz. nauk; TOMME, M.F., prof., red.; NECHIPORUK, L.P., red.; GUREVICH, M.H., tekhn. red.

> [Using straw in livestock farming; preparation and feeding] Ispol'zovanie solomy v zhivotnovodstve; podgotovka i skarrlivanie. Pod red. M.F.Tomme. Moskva, Sel'khozizdat,1962. 78 p. (MIRA 15:10)

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CIA-RDP86-00513R000410310007-5

PEYVE, Ya.V.; PETERBURGSKIY, A.V., doktor sel'khoz. nauk, prof.; GAR, K.A., kand. sel'khoz. nauk; GOLYSHIN, N.M., kand. biol. nauk; KOROTKIKH, G.I., kand. sel'khoz. nauk; CHESALIN, G.A., kand.sel'khoz.nauk; RAKITIN, Yu.V., doktor biol. nauk; ZEZYULINSKIY, V.M., kand. sel'khoz.nauk; DEVYATKIN, A.I., kand. sel'khoz. nauk; VENEDIKTOV, A.M., Kand.sel'khoz. nauk; TARANOV, M.G., kand. biol. nauk; BORISOVA, L.G.; BEREZNIKOV, V.V., kand. tekhn.nauk; KONDRATENKO, R.V., st. nauchn.sotr.; BORISOV, F.B., st. nauchn.sotr.

> [Chemistry in agriculture] Khimiia v sel'skom khoziaistve. Moskva, Kolos, 1964. 381 p. (MIRA 17:9)

> 1. Chlen-korrespondent AN SSSR (for Peyve). 2. Nachal'nik laboratorii Nauchno-issledovatel'skogo instituta plastmass (for Borisova). 3. Nauchno-issledovatel'skiy institut plastmass (for Kondratenko, Borisov).

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(Imame) at the	S0V/124-59-8-8862
Translation	from: Referativnyy zhurnal, Mekhanika, 1959, Nr 8, p 79 (USSR)
AUTHORS:	Kudryashov, L.I., Devyatkin, B.A.
TITLE:	On the Possibility of Applying the Conditions of a Uniform Helical Motion to the Investigation of the Nonisothermic Motion of a <u>Gas</u> Under Laminar Conditions in Horizontal Pipes of Circular Cross Section
PERIODICAL:	Sb. nauchn. tr. Kuybyshevsk. industr. in-ta, 1957, Nr 7, pp 61 - 73
ABSTRACT:	The authors attempt to study the nonisothermic motion of a gas in pipes by application of a model of uniform helical motion. The special case of the motion of a baroclinic viscous gas is discussed, when the condition $\frac{1}{9} \text{ grad } p = -\text{ grad } \left(-\frac{1}{2} \cdot v^2 + \pi\right) - V \text{ rot } (f v)$
Card 1/2	is fulfilled for the entire flow and the vectors v and rot v satisfy the condition: rot $v = f v$. The authors repeat here

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On the Possibility of Applying the Conditions of a Uniform Helical Motion to the Investigation of the Nonisothermic Motion of a Gas Under Laminar Conditions in Horizontal Pipes of Circular Cross Section

without reference the results obtained by B.A. Fyshkin (Nauchn. zap. MIMI, 1948, Vol 17). An other result of the article pertains to heat exchange within a pipe. Herein the flow is assumed as being pure axial. Remark of the reviewer: There are incorrect formulations and mathematical errors in this article.

V.I. Merkulov

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- Kudryashev, L. I., Professor, Doctor of Technical Sci-AUTHORS: ences, and Devyatkin, B. A., Docent, Candidate of Tech-nical Sciences
- The use of integral relations in determining coeffic-TITLE: ients of resistance and convective heat transfer for a confined medium
- Kuybyshev. Industrial'nyy institut. Sbornik nauchnykh SOURCE: trudov, no. 8, 1959. Teplotekhnika; voprosy teorii, rascheta i proyektiravaniya, 67-82

TEXT: The paper begins with a discussion of the resistance and heat transfer in a tube of circular cross-section under the conditions of hydrodynamic and thermal stabilization and laminar flow. It is assumed that the liquid is incompressible and all the physical constants are independent of temperature. The hydrodynamic problem can be solved first and the heat-transfer problem second. Both solutions are known; the first was obtained by Stokes and the second by Lo-Card 1/5

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The use of integral

32267 S/612/59/000/008/006/016 D218/D304

rentz, Academician L. S. Leybenzon and others. The authors attempt to solve the two problems with the aid of integral relations and obtained well-known formulae. The problem considered next is that of heat transfer under conditions of thermal stabilization. Considerations analogous to those described above lead to a dimensionless integral relation which can be used to determine the heat transfer coefficient. The distribution of the excess temperature is then sought in the form of a power series in r_1 and this is shown

to give Nu = 6. The next problem is that of resistance and heat transfer under the conditions of stabilized turbulent motion in a tube of circular cross-section. The corresponding equations can be set up if it is assumed that the average motion of the liquid is axially symmetric (with respect to the longitudinal axis of the tube). The dimensionless integral relations for this case are deduced and a well known result is obtained for C_{f} . For a universal

logarithmic velocity profile

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The use of integral ... $\frac{32267}{S/612/59/000/008/006/016}$ $\frac{1}{\sqrt{c_f}} = 2 \cdot \lg(\operatorname{Re}\sqrt{c_f}) + 0.8 \qquad (53)$ is obtained. The fundamental relation of the hydrodynamic theory of heat transfer Nu = $C_f \operatorname{Pe}/8$ is deduced as a special case. The above relation holds provided the effect of the boundary layer on the heat transfer coefficient is neglected. This means that a correcting coefficient \underline{K} must be introduced into $\operatorname{Nu} = \frac{c_f}{8} \operatorname{Pe} \qquad (67)$ to allow for this discrepancy, i.e. $\operatorname{Nu} = \frac{c_f}{8} \cdot \operatorname{Pe} \cdot K \qquad (68)$

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