# CIA-RDP86-00513R001549910005-7

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SHORIN, K.N.

Method of controlled motion of a particle beam in an accelerator. Prib. i tekh. eksp. 9 no.4:25-27 Jl-Ag '64. (MIRA 17:12)

1. Fizicheskiy institut AN SSSR.

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L 13113-65 ENT(m)/EPA(w)-2/EMA(m)-2 Pt-7/Pab-10 IJP(c) ACCESSION NR: AP5007059 S/0120/65/000/001/0201/0202 35 AUTHOR: Artem'yeva, Z. L.; Shorin, K. N. TITLE: Adjustment of direction of the gamma beam in cyclic electron accelerators SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1965, 201-202 TOPIC TAGS: electron accelerator, cyclotron ABSTRACT: The possibility is considered of adjusting the direction of the gamma beam by varying the final orbits of acceleration. For small angular deviations, the target may remain fixed which materially simplifies its design; also, the possibility arises for adjusting the beam in the vertical plane. For large angular deviations, a number of fixed targets may be used. The above method was experimentally verified on the FIAN 700-Mev synchrotron where the first- harmonic orbit was deviated (by 13') by application of current pulses (4-10 amp) to the acceleration windings. Orig. art. has: no figure, formula, or table. ASSOCIATION: Fizicheskiy institut AN SSSR (Institute of Physics, AN SSSR) SUBMITTED: 19Dec63 ENCL: 00 SUB CODE: MP NO REF SOV: 001 OTHER: 000			an an an the state of the state		andra and	
ACCESSION NR. AP Subject AUTHOR: Artem'yeva, Z. L.; Shorin, K. N. TITLE: Adjustment of direction of the gamma beam in cyclic electron accelerators SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1965, 201-202 TOPIC TAGS: electron accelerator, cyclotron ABSTRACT: The possibility is considered of adjusting the direction of the gamma beam by varying the final orbits of acceleration. For small angular deviations, the target may remain fixed which materially simplifies its design; also, the possibility arises for adjusting the beam in the vertical plane. For large angular deviations, a number of fixed targets may be used. The above method was experimentally verified on the FIAN 700-Mev synchrotron where the first- harmonic orbit was deviated (by 13') by application of current pulses (4-10 amp) to the acceleration windings. Orig. art. has: no figure, formula, or table. ASSOCIATION: Fizicheskiy institut AN SSSR (Institute of Physics, AN SSSR) SUBMITTED: 19Dec63 ENCL: 00 SUB CODE: MP NO REF SOV: 001 OTHER: 000	<u>г 45443-65</u>	EWT (m)/EPA (w)-2/F	WA(m)-2 Pt-7/Pab-	10 IJP(c)		
	ACCESSIO AUTHOR: TITLE: A SOURCE: TOPIC TA ABSTRAC beam by v the target possibility deviations experimen harmonic to the acc ASSOCIAT SUBMITT NO REF S	NNR: AP5007059 Artem'yeva, Z. I djustment of direct Pribory i tekhnika AGS: electron acce T: The possibility arying the final or may remain fixed y arises for adjusti , a number of fixe ntally verified on the orbit was deviated eleration windings TION: Fizicheskiy ED: 19Dec63	S/012 ; <u>Shorin, K. N.</u> ion of the gamma b eksperimenta, no. lerator, cyclotron is considered of ac bits of acceleration which materially sh ng the beam in the d targets may be us he FIAN 700-Mev so (by 13') by applica , Orig. art. has: institut AN SSSR (I ENCL: 00	eam in cyclic el 1, 1965, 201- ljusting the dire For small an implifies its de vertical plane. sed. The above ynchrotron whe tion of current no figure, form institute of Phys	lectron accelerate 202 ection of the game agular deviations, sign; also, the For large angula method was re the first- pulses (4-10 amp nula, or table. sics, AN SSSR)	ma. a.r

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, 38206-66 EWT(m) IJP(c)	
ACC NR: AP6022029 SOUR	RCE CODE: UR/0120/66/000/003/0190/0192
AUTHOR: Artem'yeva, Z. L.; Shorin, K. N.	-114
ORG: Institute of Physics, AN SSSR, Moscow (Fizic	heskiy institut AN SSSR)
TITLE: Method for enhancing the efficiency of mag	netic shielding
SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1	966, 190-192
TOPIC TAGS: magnetic shielding, hysteresistors ma Geometric shielding, hysteresistors ma Geometric field	gnetization, electron accelerator
ABSTRACT: The results are reported of an investig	ation of shielding the accelerator
tube from the Earth magnetic field by hysteresis. In a model study, 10 rings of 260 mm d:	iameter had a shlelding
factor of 1.65-2.0 when the constant field was h strong damping-amplitude a-c field was added (the	ield within 0.4-3.5 oe; when a
the shielding factor increased to 20-14.	In the experiment; a 2.2-m
long accelerating tube with an initial electron e of 600 kev was shielded by the steel rings which	reduced the transverse Larth-
magnetism component of 0.45 oe down to 0.02 oe (e was 0.1 oe). Orig. art. has: 3 figures.	except for the edges where the field [03]
SUB CODE: 09 / SUEM DATE: 10Mar65 / ORIG REF: 003	4 ATD PRESS: 5044
Card 1/1 1/1-	IDC: 621.316.97

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BREYTBART, A.Ya., redaktor; SHORIN, N.A., redaktor; URAZOVA, A.N., tekhnicheskiy redaktor."

[Electronic time measurements. Translation for the English] Lampovye skhemy dlia izmereniia vremeni. Perevod s angliiskogo. Pod red. A.IA.Breitbarta. Moskva, Izd-vo "Sovetskoe radio." (MLRA 8:2) Vol. 1. 1951. 287 p.

1. Massachusetts Institute of Technology. Radiation Laboratory. (Time measurements) (Electronic apparatus and appliances)



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KAUMENKO, Ye.D., redaktor; SHORIN, N.A., redaktor; KORUZEV, N.N., tekhnicheskiy redaktor. [Refler klystrons. Translated from the English] Otrazhatel'nye klistrony. Perevod s angliiskogo. Moskva. Izd-vo "Sovetskoe radio." 1954. 251 p. (MLRA 8:2) (Amplifiers. Electron-tube)

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SHORIN, N.A.

YEMEL'YANOV, V.S., otv.red.; BARDIN, I.P., red.; VINOGRADOV, A.P., red.; GOL'DANSKIY, V.I., red.; GULYAKIN, I.V., red.; DOLIN, P.I., red.; YEFREMOV, D.V., red.; KRASIN, A.K., red.; LEBEDINSKIY, A.V., red.; MINTS, A.L., red.; MURIN, A.N., red.; NIZE, V.E., red.; NOVIKOV, I.I., red.; SEMENOV, V.F., red.; SOBOLEV, I.N., red.; BAKHAROVSKIY, G.Ya.; nauchnyy red.; BERKOVICH, D.M., nauchnyy red.; DANOVSKIY, N.F., nauchnyy red.; DELONE, N.N., nauchnyy red.; KON, M.A., nauchnyy red.; KOPYLOV, V.N., nauchnyy red.; KON, M.A., MILOVIDOV, B.M., nauchnyy red.; MOSTOVENKO, N.P., nauchnyy red.; MURINOV, P.A., nauchnyy red.; RABINOVICH, A.M., nauchnyy red.; SIMKIN, S.M., nauchnyy red.; RABINOVICH, A.M., nauchnyy red.; SIMKIN, S.M., nauchnyy red.; SHORIN\_MA, nauchnyy red.; SHREYBERG, G.L., nauchnyy red.; SHTEYNMAN, R.Ya., nauchnyy red.; KOSTI, S.D., tekhn.red.

> [Concise atomic energy encyclopedia] Kratkaia entsiklopediia "Atomnaia energiia." [\_\_\_\_Tables of isotopes (according to published data available at the beginning of 1958)] \_\_\_\_Tablitsa izotopov (po dannym, opublikovannym k nachalu 1958. 12 p. Gos. nauch. izd-vo "Bol'shaia sovetskaia entsiklopediia," 1958. 610 p. (MIRA 12:1)

1. Sotrudniki Bol'shoy Sovetskoy Entsiklopedii (for Bakharovskiy, Berkovich, Danovskiy, Delone, Kon, Kopylov, Mandel'tsvayg, Milovidov, Mostovenko, Murinov, Polyakov, Preobrazhenskaya, Rabinovich, Simkin, Skvortsov, Sysoyev, Shorin, Shreyberg, Shteynman). (Atomic energy)

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GNATOVSKIY, Nikolay Ivanovich, dotsent, kand.tekhn.nauk, inzh.-polkovnik; SEORIN, Pavel Aleksandrovich, inzh.-podpolkovnik; VIL<sup>1</sup>CHINSKIY, I.K., red.polkovnik; STREL'NIKOVA, M.A., tekhn.red. [Evolution of small arms in Russia] Istoriia rzvitiia otechestvennogo strelkovogo oruzhiie. Moskva, Voen.izd-vo M-va obor.SSSR, 1959. 247 p. (WIRA 12:9) (Firearms)



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SHORIN, P. I.

LANUFACTURE OF FLANE-OUT TING TORONES AT THE MOLOANNEY LOSICICTIVE MORKS. P. I. Shorin. (Avtogeneos Dolo, 1948, No. 10, p. 29). (In Russian). A brief description is given of <u>civacetylene cutting torchas</u>, developed during the var at the Kolomensk Works, for cutting metal 50 to 400 mm. thick, The approximate consumption of oxygen and acetylene are 8-52 and 0.6-1 cu. E. /hr. respectively.

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SHORIN, P. I., Engr	PA 167T51	
	USSR/Engineering - Boilers, Welding Jul 50	
	"Devices for Automatic Welding of a Locomotive Boiler," P. I. Shorin, Engr	
	"Avtogen Delo" No 7, pp 25-27	•
	Describes several types of tilters used in boiler making in combination with welding machines. Tilter permits 360° turns of bulky heavy pieces and eliminates use of bridge cranes. Describes flux- holding devices to keep gap between edges of parts to be welded filled with flux, thus preventing leak- age of molten metal during automatic welding pro- cedure.	
	167151	



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18(7)SOV/117-59-2-20/27 AUTHOR: Shorin, P.I. TITLE: Repair of Castings by Welding-Up (Ispravleniye otlivok zavarkoy) PERIODICAL: Mashinostroitel', 1959, Nr 2, pp 34-36 (USSR) ABSTRACT: The author describes the repair work done on defective cast iron castings conducted by the Kolomenskiy zavod Kalana Plant) imeni Kuybyshev, with the application of cold and hot arc welding using copper-steel electrodes, copper-nickel electrodes, ironnickel electrodes TsCh-3, cast-iron electrodes GOST 2671-44, and hot welding-up with the use of gas and added cast iron. The article contains a table showing what welding method is applied to which defect. Repair work on defective castings saves the plant over 3,000,000 rubles a year. There are 4 diagrams, 2 photos and 1 table. Card 1/1

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162T <sup>1</sup> 1	<pre>USSR/Fuel - Combustion (Contd) Jul 50 higher, for suitable conditions, than probabil- ity of activation for colliding molecules. Gives equation of speed of flame propagation for the case of photon activation of molecules. Explains flameless combustion of gas. Shorin was advised by Acad M. V. Kirpichev and Prof G. L. Polyak. Submitted 21 Apr 50 by Acad M. V. Kirpichev.</pre>	"Role of Radiant Energy in Combustion Processes," S. N. Shorin, Power Eng Inst imeni Krzhizhanov- skiy, Acad Sci USSR "Iz Ak Nauk, Otdel Tekh Nauk" No 7, pp 995-1015 Comparison of distribution of radiant and kinetic energies between vectors and element of volume shows that high-energy photons possess consid- ecules of same energies. Probability of photon activation of burning mixture proves considerably 162T41	USSR/Fuel - Combustion Jul 50 Thermodynamics

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to, L Klycen It is interesting to note that eq. (26), which is obtained only for combustion chambers with cooling confined to one surface, in the first approximation describes the results of experiments on industrial boiler furnaces with the heating criterion  $K_{-n}$  ranging from second to 18, and a constant value of the nominal coefficient of emissivity  $\epsilon = -0.85$ , but irrespective of the con-structional shape of the combustion chamber, the nature of the fuel and the method of combustion. This result is foreshadowed by eq. (26), in which variation of the nominal coefficient of emissivity  $\epsilon$  has a relatively weak influence on the value of  $\theta^{*}$ . For instance, if  $\epsilon$  is reduced to one half, from a value of 0.85 to 0.4.25, at a constant value of the criterion  $K_{-} = 1.8$ , the magnitude 646 3. HEAT TRANSMISSION IN BOILER FURNACES TOKNALES The solution of the problem discussed above of heat exchange by radiation between two bodies with parallel surfaces in the presence of a radiation-absorbing medium between these surfaces which moves towards the radiation-absorbing surface, can be applied to the calculation of heat transmission by radiation in boiler furnaces. The most appropriate model of a combustion chamber for the application of the solution obtained would be as follows :---reduced to one half, from a value of 0.85 to 0.4.25, at a constant value of the criterion  $K_{--}$  1.8, the magnitude  $\theta''$  will change from 0.678 to 0.753, i.e., by 11 per cent only. For smaller values of the criterion  $K_{--}$  the variation of  $\theta''$  will be even less. The weak influence of  $\epsilon$  which satisfies the so-called condition of model representation, considerably simplifies the analysis of heat transmission in boiler furnaces. The comparison of eq. (26) with the existing formulae for the calculation of heat transmission in boiler furnaces, which are established from experimental data and which contain the magnitude  $\epsilon K_{--}$  as a determining parameter, is through the radiation-absorbing surface. For boiler furnaces, the temperature of the combustion products at the exit from the combustion chamber can be determined from eq. (25), which, on condition that  $\theta_{a}^{(*)} = \theta^{(*)}$  is transformed into : contain the magnitude  $\epsilon K_{m}$  as a determining parameter, is shown in Fig. 5, where the ctirves of  $\theta = f(\epsilon K_{m})$  re-present our eq. (26), and two other methods of calculation.  $eK_{ii}\theta^{\prime\prime} + \theta^{\prime\prime} + 1 = 0$ • • (26)Greve

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ENGRIN, S. H.
"Heat Transfer" 1,52
Textbook for students specializing in gas heat supply and ventilation.
However, the theoretical part is of general interest for heat transfer.

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SH.R.IN, S. N. -- "TRANSMISSION OF HEAT IN A RAY-ABSORBING MEDIUM." SUB 22 MAY 52, Power Engineering Inst Imeni G. M. Krzhizhanovskiy, Acad Sci USSR (Dissertation for the Degree of Doctor in Technical Sciences)

50: VECHERNAYA MOSKVA, JANUAR-DECEMBER 1952

Dissertation by S.N.Shorin "Heat transfer in a radiation absorbing madium." Izv. AN SSSR Otd.tekh.nauk no.5:788-789 My '53. (MLRA 6:8) (Heat--Convection) (Shorin, S.N.)

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SHORIN, S. USSR. 621.438.016.4 Izv. Akad. Nauk, Otd. 162/115 Radiation Heat Exchange in the Cooled Combustion Chambers of Gus Turbines Takh Nauk 10),99-111 1954 U.S.S.R. S.N. Shorin Mathematical discussion of various processes in a flow of burning mixture is offered, with particular reference to radiation heat exchange, Radiation temperature, which exists alongside kinotic temperature in a flow of radiating medium, is taken into account, since it determines radiation heat exchange. Results of calorific measurement of heat exchange in a cooled combustion chamber are briefly summarised. Because of the possibility of considerable radiation heat exchange in combustion chambers, in order to reduce the convective heating surfaces of heat exchangers in closed cycle gas turbines, provisions should be made to increase heat emission criteria in combustion space. (Bib1.2) . .... .:

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SOV/24-58-5-8/31 Radiant Heat Exchange in a Current of Radiating Medium	
<ul> <li>neglected. The absorption coefficient of the medium is assumed to be constant. Explicit expressions are derived for the above two cases and the results are summarised in five graphs. There are 7 figures and 8 references, 6 of which are Soviet, 1 German, 1 French.</li> </ul>	
SUBMITTED: February 18, 1958	
Card 2/2	

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AUTHORS:	Shorin, S. N., Adrianov, V. N. 50V/30-58-7-39/49	· •
TITLE:	The Investigation of the Radiation Heat Exchange (Izucheniye luchistogo teploobmena) Conference at the Institute of Power Engineering (Sessiya v Energeticheskom institute)	
PERIODICAL:	Vestnik Akademii nauk SSSR, 1958, Nr 7, pp. 129-130 (USSR)	
ABSTRACT :	This conference took place March 25 - 28, and was called by the Committee for High-Pressure, High-Temperature Steam at the Institute of Power Engineering imeni G.M. Krzhizhanovskiy AS USSR (Komissiya para vysokikh parametrov pri Energetiches- kom institute im. G.M. Krzhizhanovskogo Akademii nauk SSSR). It was attended by: representatives of academic and branch institutes, of universities, of design organizations and in- dustrial enterprises. M.A. Mikheyev, Member, Academy of Sciences, USSR, opened the meeting. The work of the conference was per- formed in sections: Furnace and firebox systems, furnace heat engineering, physical-technical section. Theoretical research was touched upon by a considerable proportion of the reports. Communications concerning various model representations of	
Card 1/2	processes of radiation energy exchange were met with great	

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The Investigation of the Radiation Heat Exchange. 50V/30-58-7-39/49Conference at the Institute of Power Engineering

> interest. Apart from successful work also shortcomings in the field of experimental research were noted. In the conference the necessity was underlined to close the gap between theory and practice. The conference ordered the Commission for High-Pressure, High-Temperature Steam to coordinate research in this field in a systematic way and towork out a uniform multilateral plan of research. It was acknowledged to be expedient for the USSR to participate in the work of the International Committee for the Investigation of Flame Radiation (Mezhdunarodnyy komitet po issledovaniyu radiatsii plameni) in order to establish closer contact and collaboration with foreign scientists in the field of radiation heat exchange.

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### CIA-RDP86-00513R001549910005-7

SOV/96-59-2-10/18 The Combustion and Radiation Characteristics of a Turbulent Gas Flame

> for the length of the turbulent precombustion zone. Finally an expression is given for the length of a turbulent flame. With this general relationship as a basis special tests were made to obtain a definite formula for the length of a turbulent flame as a function of various governing criteria when burning different gases. The experimental set-up used to study the combustion of burning jets of gas is illustrated diagrammatically in Fig 2. It includes an arrangement to preheat the gas to any required temperature, a nozzle box which can take nozzles of the different shapes and sizes illustrated in Fig 3 and various devices to control and measure the flow of gas, its temperature and pressure and radiation from the flame. Various methods of measuring the flame length were examined and simple visual examination was found best. A hydraulic level indicator, shown diagrammatically in Fig 2, was devised to facilitate evaluation of the position of the top of the flame. The composition of

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# CIA-RDP86-00513R001549910005-7

CUV/98-59-2-10/18 The Combustion and Radiation Characteristics of a Turbulent Gas Flame the Moscow Town gas used in the tests was not strictly constant, which somewhat impaired the accuracy of the results; the mean composition is given. Altogether, 23 series of tests were made on town gas, 9 series on propane and 4 series on hydrogen, making nearly 1000 individual tests in all. Each series of tests was made with a particular nozzle diameter. The variables in tests of a given series were gas consumption and temperature. The nozzles were made from a number of different materials and ranged in diameter from 2.0 to 10.1 mm. In calculating the diffusion criterion the coefficient of kinematic viscosity was calculated for the ambient air temperature and the coefficient of molecular diffusion for the temperature of the gas on leaving the nozzles. This was a bit arbitrary since the temperature at which the process of molecular mixing occurs in burning jets is considerably higher than the initial gas temperature and is different in different parts of the flame. As the object of this investigation was only to obtain quantitative data about Card 3/7

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#### CIA-RDP86-00513R001549910005-7

SUV/96-59-2-10/18 The Combustion and Radiation Characteristics of a Turbulent Gas Flame the characteristics of turbulent flames, burning gas of given composition, the densities of the gas and air were not considered in working out the test results. The method of plotting the results that was used to determine the influence of different criteria on the length of the flame is explained and the experimental results are then plotted in Fig 5 and 6. Formulae (4), (5) and (6) are then given for the flame length of town gas, propane and hydrogen respectively. Formulae given by previous authors for flame length are briefly considered and their limitations discussed; one makes unjustifiable assumptions and another is valid only for cold gas. However the present tests showed that the length of turbulent flames is much affected by the initial gas temperature. Other things being equal. increase in the gas temperature shortens the flame length because the temperature has a marked effect on the diffusion coefficient of the gas. The initial Card 4/7 diameter of the jet also has a very strong influence on

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30V/96-59-2-10/18 The Combustion and Radiation Characteristics of a Turbulent Gas Flame the length of the turbulent flame, the less the initial diameter the less the length of the flame. The most important feature of turbulent jets of burning gas in a free oxidising medium is diffuse after-burning of gas clusters and it is this process that mainly governs the length of the turbulent flames. The radiation characteristics of a flame are then considered and formula (8) is derived for the total radiation from the The extent to which part of this radiation may flame. be absorbed by the medium immediately surrounding the flame is then considered and suitable corrections are given for the radiation formulae. In the tests the radiation characteristics of the flames were studied by measuring the radiation at a fixed place on the circumference of the flame, as shown in Fig 2. The radiometer was placed in such a way as to record radiation from the flame in a direction perpendicular to its axis, because this corresponds most closely to conditions of radiation from a flame to the lateral heating surfaces in furnaces. The results of local Card 5/7

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SOV/96-59-2-10/18

The Combustion and Radiation Characteristics of a Turbulent Gas Flame

radiation measurements on flames of town gas and propane-butane are plotted in Fig 7 in which the bold line corresponds to formula (12). The formulae previously derived to determine the length of the gas flames are applied to obtain formulae (13) and (14) for the radiation characteristics using Mescew City gas and liquid gas respectively. These characteristics can be used to explain the influence of various factors on the radiation from the flame, the most important of which is the initial diameter of the jet and the theoretical combustion temperature of the gas. In actual furnace conditions part of the radiation from the flame is absorbed by combustion products but the amount so absorbed can be reduced by keeping the flame near to the surfaces being heated. The object of the tests described was to study flame characteristics in the purest form without the complications that result from the influence of various conditions surrounding the

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# CIA-RDP86-00513R001549910005-7

SOV/96-59-4-12/21

- AUTHORS: Adriancy, V.N., Candidate of Technical Sciences and Shorin, S.N., Doctor of Technical Sciences
- TITIE: An Investigation of Heat Exchange in a Gas Combustion Chamber (Issledcraniye teplochmena v kamere goreniya gaza)

PERIODICAL: Teploenergetika, 1959, Nr 4, pp 62-67 (USSR)

ABSTRACT: When a turbulent flow of gas previously mixed with air is burned the combustion process is mostly localised into a small part of the combustion chamber. Under these conditions the process of heat exchange has special features and requires special study. Purely analytical investigation of the question presents great mathematical difficulties because of the complexity of the systems of equations that describe the processes occurring in gas combustion chambers. For similar reasons it is very difficult to apply the theory of similarity to the solution of such problems. There seem, however, to be two possible approaches to investigation of the complex processes that occur in combustion chambers. The process

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	igation of Heat Exchange in a Gas Combustion Chamber	1
	<ul> <li>considerable umber of invariants were maintained constant and a number of criteria were uniquely determined by the hydrodynamic criterion, the Raynolds number. The entire complex of physical effects that occur in heat exchange chambers can be represented by a system of differential and integre differential equations. The principal equations concerned are the following:</li> <li>(1) the equation of motion of viscosity of the compressed fluid for three-dimensional motion of the medium in which the coefficient of dynamic viscosity and the density are considered as variables depending on the temperature, pressure and composition of the medium at any point;</li> <li>(2) the equation of mass transfer;</li> <li>(3) the energy equation that represents the law of conservation of energy for each elementary volume of the medium;</li> <li>(4) the combustion equation that relates the rate of the combustion reaction to the rate of guarding of the section.</li> </ul>	
Card 3/7	occurs as a result of molecular and molar transfers;	
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SOV/96-59-4-12/21 An Investigation of Heat Exchange in a Gas Combustion Chamber governed almost uniquely by the Reynolds number and accordingly the other criteria concerned must have considerably less effect. A further way of showing the close relationship between heat exchange criteria and Reynolds number is illustrated graphically in Fig.3 from which approximate heat exchange formulae are derived. The structure of the formulae reveals the nature of the influence on heat exchange of such important factors as load and theoretical combustion temperatures. It may be concluded from the experimental graphs that under the given experimental conditions the hydrodynamic characteristics of the flow represented by the Reynolds number have a dominating influence on heat exchange. Within the range considered other factors are relatively unimportant and may be neglected. Attempts to generalise the experimental data by constructing corresponding relationships as function of the Bolzmann criterion are much less satisfactory as will be seen from the graph given in Fig. ... The general form of the relationship is obviously similar to that given in Fig.2 but the scatter of the points is much greater and there can be no question Card 6/7

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		801/136		est Exerença) 3,200 cepies	M.A. Mitheyer, Academician; Zi. of Publishing House: G.B. Corblact; 74-12 4.0. Bruggul'.	PODS: The book is intended for scientists and engineers working in various branches of science and industry concerned with thermodynamics and best trans for problems.	of 19 original articles on various problems in the ubjects are discussed: mechanics of heat transfer discussion of thermorphysical		199	Investigation of Heat	ettas.	Jattice (	te on East	and Beat	of Contrast	IniteAbrica	Measurement of the Embange by the Methin	f Badlatiun	of Ratio	Engineering Method for ment	an Atomic	atomic bar	r. Heesuriag of the Lo-	La and My-					
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		I ASLHY	Energeticheskiy institut	Rom'skiivayy 1 luchistyy teploobasn (Con Noscow, Isd-ro AN SSSN, 1960. 254 p. Printed.	idemician; Ed.	stended for so and industry o	consists of 19 or illoving subjects	ing media, her	ascibed. E son arrous essentives un communication and a of the experimental data obtained are given. The data may lations of hast transfer and heat exchangers, alvays taking	Jave 1 (Servey) 1 (1997) 1 (1997) 1 (1997) 1 (1997) 1 (1998) 1 (19	Hast Transfer in Vertical Pipes in Natural Convection	<u>llad'rer, I.T., and I.D., Redener.</u> Critical Thermal Currents in Boiling Underheeted Mater in Channels of Complex Porm (100 ata pressure)	ilai'ya', I.T., L.D. Dodomov, and Y.S. Tialor., Erperimental Date on Sect Fransfer in Bubbling Bolling of Underhosted Mater in Pipes	Ummuny. J.G. Geraraliastion of Experimental Data on Viscosity and East Conducivity of Liquid Matals	Mirianov, V.M., and S.R. Shortha. Investigation of the Process of Combined Mark Endances in economical Unamber	Polynk. A.d Radiation Heat Exchange of Bodies With Arbitrary Indicabrices of Surface Raflection	Yillacupr, S.S., B.A. <u>Ehrustaler</u> , and Y.H. Afrizor. Massurmant Components of Combined Convection and Radiation Heat Embangs by of Yo Madiometers	Radiosetric Instrument for Mesuring the Flov of Badiation	Dull'nev, G.M., Theory of the Heat Magime of Some Constructions of Antio- stationical Installations	Dul'nev. G.R., G.P., PORTOREADA, and A.I., Mairnor. Endi Galaulating the Near Ragues of Radioslectronic Equipment	Thermal Modeling of the Heat-Producing Elements of an Atomic	Umanury, A.G., and A.I. Berezhnoy. Investigation of Molecular und Tharwie Diffusion by the Similarity Method	N <u>imeshin V.T., V.T. Subbotin</u> , P.A. Ushajoy, and A.A. Sholahhr. Trer Conscient Vit he Distortion of Isotherms in the Secton of attion of Thermocuples	Xillacoov, 5.5., and 8.4. Ehrustalar. Calculation of Neet Exchange and No- draulio Restatations in Leainer Notion of Fluids in Fipes	Alad'yev, I.T. Heat Transfer in Bubbling Boiling	Congrass		-	
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Shorin, S.N., Doctor of Technical Sciences, Professor, and 26.5000 Chipashvill, O.N., Engineer AUTHORS:

Action of circular flow on the heat exchange in a gas

combustion chamber TITLE:

Issledovaniye i raschety teploenergeticheskikh i energokhimicheskikh protsessov; sbornik statey; Gosudarstvennoye nauchnotekhnicheskoye izdatel'stvo mashinostroitel'noy literatury, PERIODICAL: Moskva, 1961, 135 - 138

In circular-flow gas burners, the flow of the hot mixture unlike to straight flow burners, takes place yielding an umbrella-shaped expanding current in the outer section and a countercurrent flow of combustion products in the central part of the combustion chamber. Under these conditions, it is evident that better exchange of heat will be provided due to the flow of high-temperature combustion products in the neighbourhood of the chamber walls. The heat exchange efficiency in the chamber is increased as a consequence of both convective heat transfer of the combustion products and Card 1/3

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Shorin, Serafim Nikolayevich	B+I
Heat transfer (Teploperedacha), Moscow, Izd-vo "Vy suhaya shkola", 1964, 489 p. illus., biblio. Errata slip inserted. 20.000 copies printed	
POPIC TAGS: heat transfer	
TABLE OF CONTENTS [abridged]:	
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h. I. Energy transfer 11 h. II. Mass transfer 45	
h. III. Pulse transfer 76 h. IV. Transfer coefficients 98	
ch. V. Methods of solving transfer problems 126 Part 2. Thermal conductivity and heat transfer	
th. VI. General characteristics of thermal conductivity problems 149 th. VII. Stationary thermal conductivity and heat transfer 161	- Andrew Constraints
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AUTHORS: Ter-Oganes'yants, A. A. (Engineer, Disservand), chores, technical sciences, Professor)	
TITLE: Meat exchange and frictional recistance in a high temperature gas flow	
SOURCE: Teploenergetika, "no. 2, 1965, 83-86	
TOPIC TAGS: heat exchange, friction, gas flow, Nusselt number, Stanton number, combustion, calorimeter, thermocouple, copper/ MK 1 micromanometer, T 1 3(4)	
thermometer	
ABSTRACT: Experimental results from studies on the heat exchange and frictional resistance during the cooling of a high temperature stream of gas flowing through	
a pipe with constant wall temperature are reported, the did use of the gases were	
sent through a tube calorimeter, and then let out into the autophics of the gas was	
calorimeter tube was cooled by water. The mode of the gas into the trbe. The gas-to- measured by a gas calorimeter, before passing the gas into the trbe. The gas-to- air ratio was controlled by a flue gas analyzer installed at the end of the tube calorimeter. The static pressure was measured by a micromanometer <u>MK-1</u> (sensitivit	7
calorimeter. The static pressure was measured by a more called by a more c	

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	of 0.01 mm of water; offective_length_of_3	00 mm: water tomperat	ures were measured	1 by1-3(4) type	
	mercury thermometers copper-constant in the numbers from 4000 to ature, varied from 2.4 for the Nusselt number	(accuracy of 0.1C); rmoccuples. The test 30000. The value of 04 to 3.71. The foll	and pipe temperatues were performed $\Psi$ , the mean ratio	ures were measured over a range of Rej o of gas-to-wall to	by molds: amper-
	and for rough pipes	<u>Nu</u> = 0,021 Re*.*¥	<b>P.1</b> .		
	The corresponding value 0.022 Re-0.16. Orig.	art. has: 13 formul	as and 7 figures.		
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SHORIN, V.A., professor; TERMOL'YEVA, Z.V.

Review of "Antibiotics and their use; collection of experimental studies." Edited by Z.V.Ermol'eva. Transactions of the Academy of Medical Sciences of the U.S.S.R., vol.22, no.1. Vest.AMN SSSR no.3:60 '53. (MIRA 7:1)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Yermol'yeva). (Antibiotics)

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SHORIN, V. A.

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"Antibiotics and their practical use." P. N. Kashkin. Reviewed by <u>V. A. Shorin.</u> Mikrobiologiia 22 no. 3: 347-349 My - Je '53

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SHORIN, V.A.

Mechanism of the therapeutic effect of albomycin. Zhur.mikrobiol.epid. i immun. no.3:88 Mr '54. (MLRA 7:4)

1. Iz laboratorii antibiotikov Akademii meditsinskikh nank SSSR. (Antibiotics)

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A STATES SHORIN, V. La la construcción de la constru Reviews and bibliography ("Elements of Bacterial cytology." G.Knaysi, Reviewed by V.Shorin.) Antibiotiki 7 no.1:149-150 '54. (MLRA 7:5) (Bacteria) (Cells) (Knaysi, Georges Abdallah, 1898-) 

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1 1. A. J. . . Effect of zerobic and anaerobic conditions of growth of harteria on antibacterial activity of albomycin and other antibiotics. <u>V. A. Shorin and Vu. O. Suzvkin</u>. Doklady Akad. Nauk-35.5.7K. 90; 645-7(1054).—Albomycin at all concns. represses the zerobic metabolism of staphylococcus and intestinal bacteria but has no effect on their anaerobic metabolism. Streptomycin in therapeutic concns, behaves similarly, while at high concns. It also represses the anaerobic metabolism. Aureomycin and chloromycetin repress bac-terial growth regardless of aerobic or anaerobic conditions of the culture. C. M. Kosolapoff on Research on New Autilistics, AMS USSR lust +

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### CIA-RDP86-00513R001549910005-7

YERMOL'YEVA, Z.V., professor, otvetstvennyy redaktor; BILIBIN, A.F., professor; SHORIN, V.A., redaktor; POPRYADUKHIN, K.A., tekhnicheskiy redaktor

[Bionycin; experimental and clinical studies of biomycin] Biomitsin; eksperimental'noe i klinicheskoe izuchenie biomitsina. Otv.red. Z.V. Ermol'eva i A.F.Bilibin. Moskva, Gos. izd-vo med. lit-ry. Vol.2. [A collection of articles] Sbornik statei. 1956. 202 p. (MLRA 9:11)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Yermol'eva, Bilibin)

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SHORIN	macology, Toxicology. Chemotherapeutic Agnets U-7	
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Abs Jour	: Ref. Zh. Biol., No 2, 1958, No 8098	
Author	: Shorin, V.A.	
Inst	:	
Title	New Realms in the Use of Albomycin	
Orig Pub	: Antibiotiki, EksperimKlinich. Izuch. M., 1956, 224-226	
Abstract	: Various data from the literature are given indicating a high therapeutic value of albomycin in the treatment of Spirochetosis acarina, caused by Borellia sogdianum, It is recommended that albomycin in a physiological solution, or in a 1% solution of cocaine, be injected subcutaneoudly, first in large doses and later in gradually diminished doses. A 100,000 u dose of albomycin circumscribed exper- imental peritonitis in the rabbit. It acted fayorably on	
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USSR/Microb	iol	logy. Antobiosis, and Symbiosis. F-2 Antibiotics.	
Abs Jour	:	Ref. Zhur-Biologiya, No 1, 1957, 514	
Author Inst Title	:	<u>V. A. Shorin</u> , O. K. Rossolimo, E. S. Kudrina On Methods of a Search for New Antibiotics	
Orig Pub	:	with Antivirus Action Antibiotiki, 1956, 1, No 1, 15-18	
Abstract	:	The upper surface of leaves of thorn apple (Datura stramonium D. alba, D. bernhardii) and tobacco (Nicotiana gluti- nosa) were infected with the virus of tobacco mosaic. Twenty to 30 minutes later an agar block with grown actinomyces was placed on one-half of a leaf. On the	
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"Pharmacological Investigation of Colimycin," by V. A. Shorin, L. Ye. Gol'dberg, and I. A. Kunrat, Institute of the Search for New Antibiotics, Academy of Medical Sciences USSR, <u>Anti-</u> biotiki, Vol 1, No 5, Sep/Oct 56, pp 8-12

This work reports the results of experiments conducted on white mice, guinea pigs, rabbits, and cats to determine the toxicity and cumulative properties of the antibiotic colimycin and its effect on the central and automatic nervous systems and blood circulation. The experiments established the following; the  $LD_{50}$  of colimycin when administered intravenously to white mice was 32-45 milligrans per kilogram body weight; when administered subcutaneously, 260-270 milligrams per kilogram body weight; colimycin had a depressing effect on the central nervous system of all animals; and it exhibited no cumulative properties; and repeated subcutaneous administrations of colimycin had no toxic effect on the peripheral blood and the blood-producing organs of the guinea pigs.

Pure preparations of the antibiotic exhibited no pyrogenic properties. Colimycin was found to have a moderate hypotensive action. Large doses did not intensify its hypotensive action, but prolonged it. It had little effect on the automatic nervous system and in large concentrations, acted as a mild antihistamine agent.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549910005-7 Way to Barry SHORIN, V.A., doktor meditsinskikh nauk. Antibiotics. Zdorov'e 2 no.3:2-4 Mr '56 (MIRA 9:6) (ANTIBIOTICS) 



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SHORIN, V.A. (Dr. of Med. Sci.)

"New Fields of Application of Albomycin,"

Ministry of Health USSR Proceedings of the Second All-Union Conference on Antibiotics, 31 May - 9 June 1957. p. 405, Moscow, Medgiz, 1957.

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### CIA-RDP86-00513R001549910005-7

BRAZHNIKOVA, M.G.; KOVSHAROVA, I.N.; GAUZE, G.F.; SVESHNIKOVA, M.A.; BOBKOVA, T.S.; SHOEIN, V.A.; ROSSOLIMO, O.K.
Goerulonycin, a new antiviral antibiotic produced by Actinomyces coerulescens [with summary in English]. Antibiotiki 2 no.6:16-20 N-D '57. (MTRA 11:2)
I. Institut po izuskaniyu novykh antibiotikov ANN SSSR. (ACTINOMYCES, coerulescens, prod. of antiviral antibiotic coerulonycin (Rus))
(ATTIBIOTICS, preparation of, coerulonycin, prod. by Actinomyces coerulescens (Fus))

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