

HOSCHL, P.; KONAK, C.

Growing of CdTe single crystals by static sublimation on a cool wall under the pressure of one of the components. Chekhosl fiz zhurnal 13 no.11:850-856 '63.

1. Katedra fyziky pevných látek, Matematicko-fyzikální fakulta Karlovy university, Praha.

ACCESSION NR: AP4041980

Z/0055/64/014/007/0559/0560

AUTHOR: Konak, C.; Prosser, V.

TITLE: Temperature dependence of absorption edge of CdSe single crystals

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 14, no. 7, 1964, 559-560

TOPIC TAGS: temperature dependence, absorption edge, cadmium selenide, single crystal, absorption coefficient, photoconductivity maximum

ABSTRACT: The results of measuring the temperature dependence of the absorption coefficient of CdSe in a wavelength range of 0.6 to 1 micron and a temperature range of 125 to 459K, are given. Thin plane-parallel plates 10 to 20 microns thick grown from the vapor phase by Frerich's method were measured; a Zeiss mirror monochromator and an M12Q photomultiplier tube were used in the measurements. The temperature dependence of the absorption coefficient for $K = 10^3 \text{ cm}^{-1}$ is shown graphically. This dependence was linear for the energy

Gord 1/2

ACCESSION NR: AP4041980

corresponding to an absorption $K = 1.3 \times 10^3 \text{ cm}^{-1}$ in the range from 125 to 400K. Values of the temperature dependence of the absorption edge are compared with the temperature dependence of the photo-conductivity maximum in a table. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: Mathematics-Physics Department, Charles University, Prague

SUBMITTED: 13Jan64

SUB CODE: SS

NO REF SOV: 002

ENCL: 00

OTHER: 004

Card 2/2

AP 009504

10/17/66

Prof. Konak, G.

... of cadmium telluride and ... vapor pres-
... their components and the ... growth

source: Physica status solidi, v. 9, no. 1, 1965, 167-180

... cadmium telluride, ... crystal growth
... imation, diffusion trans...

... dependence of the substrate ... of binary

... on the vapor pressure of one of their components P^A is investi-
gated. For this purpose extensions are made to the theory of the kinetics of ele-
mentary sublimation including the mechanics of ... relationship
... derived. A method for growing ... crystals a mix-
... and large crystals of binary compounds ... pressure of
... described and justified. The results ... v_{00} , k , R_{cr} ,
... the supersaturation σ of the ... crystal growth
... generalization of the Thompson-dibbs relation. Equilibrium growth of

AF 0009524

... was made it possible to determine the ... of vanadium telluride
... The authors wish to express their thanks to J. E. Klier for
... suggestions and critical comments. ... thanks are due to A. Libicky,
... and M. Penkova for assistance in the experiments. Orig. art.
... equations, 8 figures, and 3 tables

... Department of Solid State Physics, Institute of Mathematics and Physics,
... University, Prague

INDEXED

ENCL: 00

CLASS: 11, 10

AF 0009524 002

OTHER: 01

KONAK, Z.

"The Plan Has Been Exceeded By 77,000 Tons of Coal", P. 6, (TECHNICKE NOVINY, Vol. 1, No. 17/18, Dec. 1953, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAI), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

KONAK, Z.

KONAK, Z. 3rd Congress of the Association of the Workers in Metallurgic Industry and Ore Mines. p. 59.

Vol. 7, no. 2, Feb. 1957

HUTNIK
TECHNOLOGY
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

L. KONAKCHIEV

"Creative collaboration between science and practice. p. 16. (KOOPERATIVNO
ZEMDELIE, Vol. 7, no. 6, Oct. 1952, Sofiya, Bulgaria.)

SO: Monthly List of East European Accessions, Vol. 2, No. 7, July 1953, Uncl.

1 129/0-65 EWT(1)/EWG(k)/EWT(m)/EPA(bp)-2/EPP(c)/EPP(n)-2/EPP/EPA(w)-2/
 EEC(1)/TEEC(b)-2/EPA(66)-2/EWP(c)/EWA(m)-2 Po-4/Pz-5/Pab-10/Pr-4/Pa-4/
 P-4/Pa-4 ISP(s) JD/AT
 ACCESSION NR: AP4044515

ABSTRACT: Proceeding from works of V. V. Korotkiy, G. V. ...
 ... results ...
 ... experiments ...
 ... extends the ...
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 ...

was found to have a value approximately between 1 and 4, 4) The

Case 2/3

... the ... of conductivity ... plasma ... at ...
... of about 1 ... with the ...
... of about ... efficient ...
... and tables.

KONAKHEVICH, A.V.

KONAKHEVICH, A.V.; LATSINIK, G.Ye.

Some negative aspects of the Poliakov street spigots. Vrach.delo
supplement '57:107-108 (MIRA 11:3)

1. Rovenskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya.
(WATER--BACTERIOLOGY)

GOLUBEV, V.S. (Moskva); KASABOV, G.A. (Moskva); KONAKH, V.F. (Moskva)

Study of a stationary argon - cesium plasma of nonequilibrium
conductivity. Teplofiz. vys. temp. 2 no.4:493-509 J1-Ag '64.
(MIRA 17:9)

KONAKHOVICH, YU. YA.

EA 152192

USSR/Physics - Magnetism
Instrument
Jul/Aug 49

"Measuring the Strength of a Magnetic Field by the Induction Method," Yu. Ya. Konakhovich, G. D. Latyshev, V. V. Tsimbalin, Leningrad Physicotech Inst, Acad Sci USSR, 10 pp

"Iz Ak Nauk SSSR, Ser Fiz" Vol XIII, No 4

Describes apparatus for measuring the strength H of a magnetic field, which is distinguished from ordinary instruments by its high accuracy and by the possibility of continuous operation and convenience. Discusses block-diagram representing the apparatus, generator I giving field strength of stable frequency, generator II having direct current with a synchronous "motorchik," potentiometer having constant current and galvanometer, and results of experiments with the line of internal-conversion electrons from the K-shell (240 keV) of RaC. Conclusion: Accuracy of the method is limited by the stability of frequency of the quartz oscillator, equal to 10⁻⁵. Relative error for 500-oersted field is 4 · 10⁻⁵ and decreases with increase in field H, since absolute error is 0.02 oersted. Method is free of necessity of introducing tangential corrections on rectilinear scale, and on nonlinear galvanometer. Submitted 15 Jul 49.

152192

05433
SOV/120-59-3-4/46

AUTHORS: Konakhovich, Yu. Ya., and Panasyuk, I. S.

TITLE: A Flat Crystal Neutron Spectrometer (Neytronnyy Spektrometr s ploskim kristallom)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3, pp 26-31 (USSR)

ABSTRACT: A photograph of the spectrometer is shown in Fig 1 and a sectional drawing in Fig 2. The spectrometer is set up in the path of the vertical neutron beam of a uranium-graphite reactor. The primary collimator is in the form of a steel tube 2.8 m long. A second collimator filled with a mixture of boron carbide and paraffin is set up at a distance of 1.6 m above the first collimator. The minimum divergence of the diffracted neutron beam is 4'. A table with a demountable crystal holder is placed above the second collimator and is followed by an end-window proportional counter of monochromatic neutrons. When diffracted neutrons with energy close to the Maxwell distribution maximum were detected, the number of counts per minute obtained with this counter was 6.5×10^7 which corresponds to 1.6×10^6 neutrons per

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05433
SOV/120-59-3-4/46**A Flat Crystal Neutron Spectrometer**

minute through an area of 12 x 25 mm. The resolving power of the instrument was measured using a cadmium diaphragm placed in front of the counter window. Three types of crystals were used. Calcite $\text{CaCO}_3(100)$, $d = 3.029 \times 10^{-8}$ cm; lithium fluoride $\text{LiF}(100)$, $d = 2.005 \times 10^{-8}$ cm; and quartz $\text{SiO}_2(1340)$, $d = 1.177 \times 10^{-8}$ cm. The dimensions of plates were 210 x 40 x (2 - 4) mm. Each crystal consisted of two or three monocrystalline plates. The plates were polished to coincide to within 30". First order reflection neutrons may be detected with calcite between 0.003 and 6 ev, and with lithium fluoride and quartz between 30 and 60 ev. The neutron detector was an end window proportional counter 68 cm long filled with boron trifluoride (natural isotope mixture) at a pressure of 575 mm Hg. Another counter which was used also employed boron trifluoride containing 84% of B^{10} at a pressure of 500 mm Hg. The counter was set up so that the diffracted neutron beam travelled parallel to the counter wire. The resolving power of the counting apparatus was $(2.5 \pm 0.4) \times 10^{-5}$ sec. The counter

Card 2/3

21.1000,24.6800

77214
SOV/89-8-1-8/29

AUTHORS: Konakhovich, Yu. Ya., Pevzner, M. I.

TITLE: Monochromatic Neutron Fission Cross Section of Th²²⁹
in the Energy Interval 0.02-0.8 ev. Letter to the Editor

PERIODICAL: Atomnaya energiya, 1960, Vol 8, Nr 1, pp 47-48 (USSR)

ABSTRACT: Reliable conclusions cannot be drawn about the $1/\sqrt{E}$ variation of the fission cross section in the thermal region and on the resonance in the energy interval between 0.2 and 0.3 ev, unless one increases the number of investigated fissionable nuclei. The authors chose the α active ($T_{1/2} = 7,300$ years) nucleus of Th²²⁹, proposed by Selinov as the most convenient. Neutrons from the horizontal beam of the IRT reactor were selected by means of a neutron crystal spectrometer, and sent through a ionization fission chamber, containing the material under investigation, into a "fine" proportional BF₃ counter. The cross section

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Monochromatic Neutron Fission Cross
Section of Th²²⁹ in the Energy Interval
0.02-0.8 ev. Letter to the Editor

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SOV/89-8-1-8/29

is then given by:

$$\sigma_f = \text{const} \frac{1}{V} \left(\frac{N_{Th}}{N_U} \right)$$

where N_{Th} and N_B are the respective counting rates of the chamber and the monochromatic neutron counter after making background corrections. The authors used $6 \cdot 10^{-5}$ g of Th²²⁹, chemically extracted from U²³⁵ pure to a few hundredths of 1% of uranium. Quantity of Th²²⁹ was determined by counting α particles. The chamber contained argon with 8% CO₂ at 500 mm Hg pressure. To get a 10% statistical accuracy, each point in the figure needed 50-100 hr of counting. The curve was normalized to the value of $\delta_f = (45 \pm 11)$ barn. This normalization could serve only for orientation purposes,

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Monochromatic Neutron Fission Cross
Section of Th²²⁹ in the Energy Interval
0.02-0.8 ev. Letter to the Editor

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since apparently it refers to the reactor neutron spectrum, and the Th²²⁹ cross section in the thermal region does not follow the $1/\sqrt{E}$ law. The authors note that the 0.563 and 0.727 ev resonances contribute little to the resonance integral:

$$J_{Th} = \int_{0.4}^{\infty} \sigma_f(E) \frac{dE}{E}$$

Using the equation:

$$J_{Th} = \frac{\sigma_{Th}^{th}}{2} \frac{R_{Cd}^B - 1}{R_{Th}^{Cd} - 1}$$

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Monochromatic Neutron Fission Cross
Section of Th^{229} in the Energy Interval
0.02-0.8 ev. Letter to the Editor

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SOV/89-8-1-8/29

and the values for the cadmium ratio (R_{Cd}) from the IRT reactor ($R_{\text{Cd}}^{\text{Th}} = 2.34$, $R_{\text{Cd}}^{\text{B}} = 15.2$), the resonance integral has the value of 240 barns. Measurements with the same setup were performed by V. F. Gerasimov in the 0.02-0.26 ev energy region, using a mechanical monochromator. I. V. Kurchatov showed continuous interest during the work, G. N. Yakovlev and S. V. Pirozhkov prepared the pure sample of thorium, and Chzhan Khuan-chao helped during measurements. There is 1 figure; and 8 references, 6 Soviet, 2 U.S. The U.S. references are: Neutron Cross Section, Second ed., BNL-325 (1958); C. Porter, R. Thomas, Phys. Rev., 104, 483 (1956).

SUBMITTED: April 4, 1959

Card 5/5

2

S/070/63/008/001/005/024
E132/E460

AUTHORS: Konakhovich, Yu.Ya., Saksonov, Yu.G.
TITLE: Neutron diffraction investigation of a manganese-zinc ferrite

PERIODICAL: Kristallografiya, v.8, no.1, 1963, 25-31

TEXT: The study had the aim of finding the positions of the ions and of explaining the magnetic structure in the ferrite of composition $Zn_{0.288}Mn_{0.645}Fe_{2.067}O_4$. Neutron diffraction was carried out at $20^{\circ}C$ with and without a magnetic field of 5000 Oe and at $260^{\circ}C$. X-ray diffraction gave the unit cell dimensions as $a = 8.4915 \pm 0.0005 \text{ \AA}$. The neutron beam used was monochromatized by reflection from 111 of a Pb crystal to 0.962 \AA . The Curie point of the specimen was $230^{\circ}C$. It was shown that the parameter of the oxygen ions is $u = 0.3881 \pm 0.0008$ and that the degree of inversion is $e = 0.89 \pm 0.05$. The ferrite shows anti-parallel ordering of the magnetic moments of cations in the octahedral and in the tetrahedral interstices. The saturation magnetic moment per ion for the ions in the tetrahedral and octahedral positions is 3.3 ± 0.3 Bohr magnetons and is 3.3 ± 0.9 for a "molecule", which corresponds exactly with the value

Card 1/2

Neutron diffraction ...

S/070/63/008/001/005/024
E132/E460

determined by magnetic measurements at room temperature. Comparison with the calculated values show that the tetrahedral and octahedral sub-lattices are saturated at room temperature to different degrees (94 and 68% respectively). There are 2 figures and 1 table.

ASSOCIATION: Institut atomnoy energii im. I.V.Kurchatova
(Institute of Atomic Energy imeni I.V.Kurchatov)

SUBMITTED: June 26, 1962

Card 2/2

KONAKHOVICH, Yu.Ya.; SOMENKOV, V.A.

Use of gallium in determining the cross sections of coherent
neutron scattering. Kristallografiia 8 no.5:785-787 S-0 '63.
(MIRA 16:10)

1. Institut atomnoy energii im. I.V.Kurchatova.

KONAKHOVICH, Yu.Ya; SAKSONOV, Yu.G.

Neutron diffraction study of manganese-zinc ferrite. Kristallografiia 8 no.1: 25-31 Ja-F'63 (MIRA 1787)

1. Institut atomnoy energii imeni I.V. Kurchatova.

L 26670-66 EWT(m)/EPF(n)-2/EWA(d)/EWP(t)/EWA(h) IJP(s) JD

ACC NR: AP6010404

SOURCE CODE: UR/0126/66/021/003/0384/0387

AUTHORS: Astrakhantsev, S. M.; Konnov, Yu. I.; Konakhovich, Yu. Ya.

ORG: none

TITLE: ¹⁹Neutron diffraction study of polycrystalline nichrome alloySOURCE: ¹⁸Fizika metallov i metallovedeniye, v. 21, no. 3, 1966, 384-387

TOPIC TAGS: nickel alloy, chromium alloy, nichrome alloy, neutron diffraction, tempering, electric resistance, polycrystal

ABSTRACT: A neutron diffraction study of annealed and cold worked polycrystalline nichrome alloy (containing 22 at. wt % Cr) was carried out. The electrical resistance of the specimens was also determined. A schematic of the neutron diffractometer is presented, and the experimental results are tabulated and are graphically summarized (see Fig. 1). The neutron diffraction pattern exhibited superstructural maxima corresponding to the formation of antiphase domains, the existence of which was first suggested by B. G. Livshits, G. A. Rymashevskiy, and N. P. Kosyreva (Izv. vuzov, Chernaya metallurgiya, 1961, No. 5). ¹⁸Tempering was found to lead to an ordering of the domains after the Ni₂Cr type. The authors thank N. F. Pravdyuk for evaluation of the experimental results.

Card 1/3

UDC: 539.292:548.4

L 26670-66

ACC NR: AP6010404

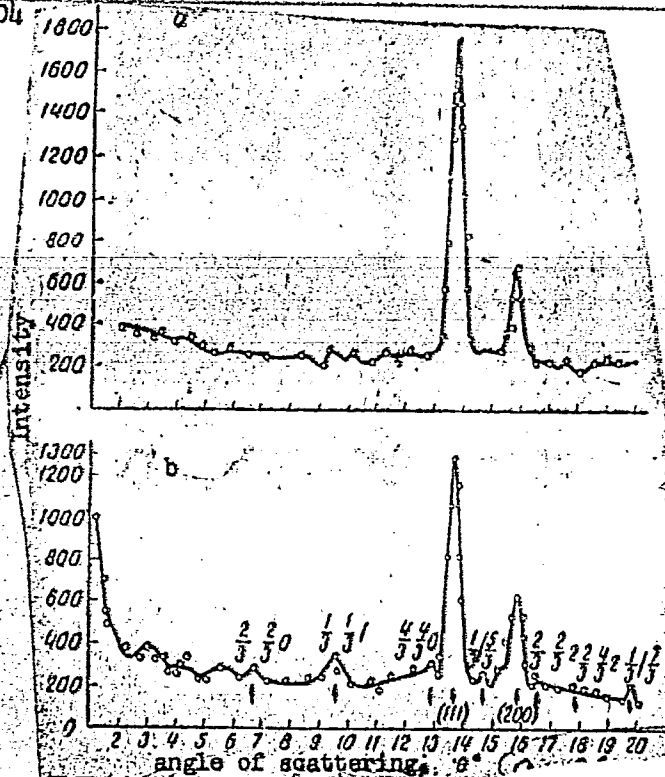


Fig. 1. Neutron diffraction patterns of the alloy Ni + 22 at. wt. % Cr before (a) and after (b) achieving K-state.

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L 26670-66

ACC NR: AP6010404

0

Orig. art. has: 1 table and 3 graphs.

SUB CODE: 11,20/ SUBM DATE: 08Jun65/ ORIG REF: 006/ OTH REF: 006

Card 3/3 BKG

NEDOSPASOV, A.V.; PANKOVA, G.I.; KONAKH, V.F.

Investigating the strata in argon. Zhur.tekh.fiz. '30 no.1:125-128
Ja '60. (MIRA 13!8)

(Argon)

(Ionization)

DESPILLER, O.D.; KONAKHOVSKAYA, S.M. [Konakhovs'ka, S.M.]; LIFSHITS, Ya.I.
[Lifshyts', I.A.I.]

Qualitative analysis of carbocholine. Farmatsev. zhur. 18 no.2:
42-43 '63. (MIRA 17:10)

1. Kafedra obshchey khimii Vinnitskogo meditsinskogo instituta im.
Pirogova i Laboratoriya aptechnogo upravleniya Vinnitskogo oblastnogo
otdela zdravookhraneniya.

KONAKOV, D.

Standardization

Technical standardization in U.S.S.R. industry.
Prof. soluzy no. 5. '52.

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

KONAKOV, D. M.

Sotsialisticheskoye Vospriozvodstvo [Socialist Reproduction] Moskva, Izd-vo Znaniye,
1953. 39 p. tables.

N/5
781
.K7

1. KONAKOV, D.
2. USSR (600)
4. Industry
7. Socialist broadened production, Prof. soiuzy, 8, no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

KONAKOV, D.M.; KOZLOV, G.A., redaktor.

[Wages] Zarabotnaia plata. Moskva, Vysshiaia partiinaia shkola pri
TsK KPSS, 1954. 28 p. (MIRA 8:4)
(Wages)

KONAKOV, D.M.

[Organization of technical norms and wages in Soviet industry]
Organizatsiia tekhnicheskogo normirovaniia i zarabotnoi platy v
promyshlennosti SSSR. Moskva, Vysshiaia partiinaiia shkola pri
TSK KPSS, 1955. 27 p. (MLRA 8:11)

(Wages)

KONAKOV, D.

Setting up labor norms in industry. Sov. profsoiuzy 3 no.9:56-61
S '55. (MIRA 8:12)
(Time study) (Labor productivity)

KONAKOV, D.M.
KORYAGIN, Aleksandr Georgiyevich; ~~KONAKOV, D.M., red.~~; NAUMOV, K.M., tekhn.red.

[Socialist reproduction] Sotsialisticheskoe vosproizvodstvo. Moskva,
Vysshaya partiinaya shkola, 1957. 61 p. (MIRA 11:2)
(Russia--Economic conditions)

BELYAYEVA, Z.; BUDARIN, V.; VASHENTSEVA, Ye.; KOPTEV, M.; KOROLEV, S.;
MESHCHERYAKOV, V.; SEMIN, S.; KONAKOV, D., *otv.red.*; ROCHKO, V.,
red.; SOSKIN, A., *red.*

[Political economy; a manual of visual aids] Politicheskaya
ekonomiya; nagladnoe posobie. *Otvetstvennyi red. D.Konakov.*
Moskva, Gos.izd-vo polit.lit-ry, 1959. 159 p. (MIRA 13:3)
(Economic history) (Audio-visual aids)

KOZLOV, Genrikh Abramovich, prof.; SHIRINSKIY, Ivan Dmitriyevich, dotsent; KCHAKOV, Dmitriy Maksimovich, prof.; MOROZOV, Aleksandr Vasil'yevich, dotsent; BELYAYEVA, Zoya Nikolayevna, kand.ekonom.nauk; KORYAGIN, A.G., red.; PROKOF'YEV, S.P., red.; NAUMOV, K.M., tekhn.red.

[Capitalist methods of production] Kapitalisticheskiy sposob proizvodstva. Moskva, Izd-vo VPSH i AN pri TsK KPSS. Pt.1. 1959. 237 p. (MIRA 12:6)

1. Kommunisticheskaya partiya Sovetskogo Soyusa. Vysshaya partiynaya shkola. Kafedra politicheskoy ekonomii. (Economics) (Capitalism)

ALEKSEYEV, A.; ANGHISHKIN, A.; BERRI, L.; BARABANOV, M.; BOGOMOLOV, O.;
BRAGINSKIY, B.; IOFFE, Ya.; KOVAL', T.; KONAKOV, D.; KUVARIN, V.;
KUDROV, V.; LITVYAKOV, P.; MURONTSEV, M.; OBOLENSKIY, K.; POKATAYEV,
Yu.; TOLKACHEV, A.; KATS, V., red.; KRYLOV, P., red.; KANEVSKAYA,
T.M., red.; GERASIMOVA, Ye.S., tekhn.red.

[Economic competition between the U.S.S.R. and the U.S.A.; a criticism
of the views of American bourgeois economists] Ekonomicheskoe srovnova-
vanie mezhdru SSSR i SShA; kritika vzgliadov amerikanskikh burzhuaznykh
ekonomistov. Moskva, Gosplanizdat, 1959. 240 p. (MIRA 12:3)

1. Moscow. Nauchno-issledovatel'skiy ekonomicheskii institut. 2. Sotrud-
niki Nauchno-issledovatel'skogo ekonomicheskogo instituta Gosplana SSSR
(for all except Kats, Krylov, Kanevskaya, Gerasimova)
(United States--Economic conditions) (Russia--Economic conditions)

BELYAYEVA, Z.; KONAKOV, D.

Collection of articles on labor in the U.S.S.R. ("Labor in
the U.S.S.R." Reviewed by Z. Belyaeva; D. Konakov) Sots. trud
4 no. 3:144-148 Nr '59. (MIRA 12:4)
(Labor and laboring classes)

KONAKOV, D.

Improving material incentives is an important lever of accelerating
the rate of the building of communism. Sots. trud 7 no. 12:26-33
D '62.

(Incentives in industry)

(Wages)

(MIRA 16:2)

KONAKOV, G. A., Cand. Tech. Sci. (diss) "Investigation of Initial Parameters of System of Automatic Control of Marine Reversing Engine," Gor'kiy, 1961, 18 pp. (Gor'kiy Polytech. Inst.)
200 copies (KL Supp 12-61, 268).

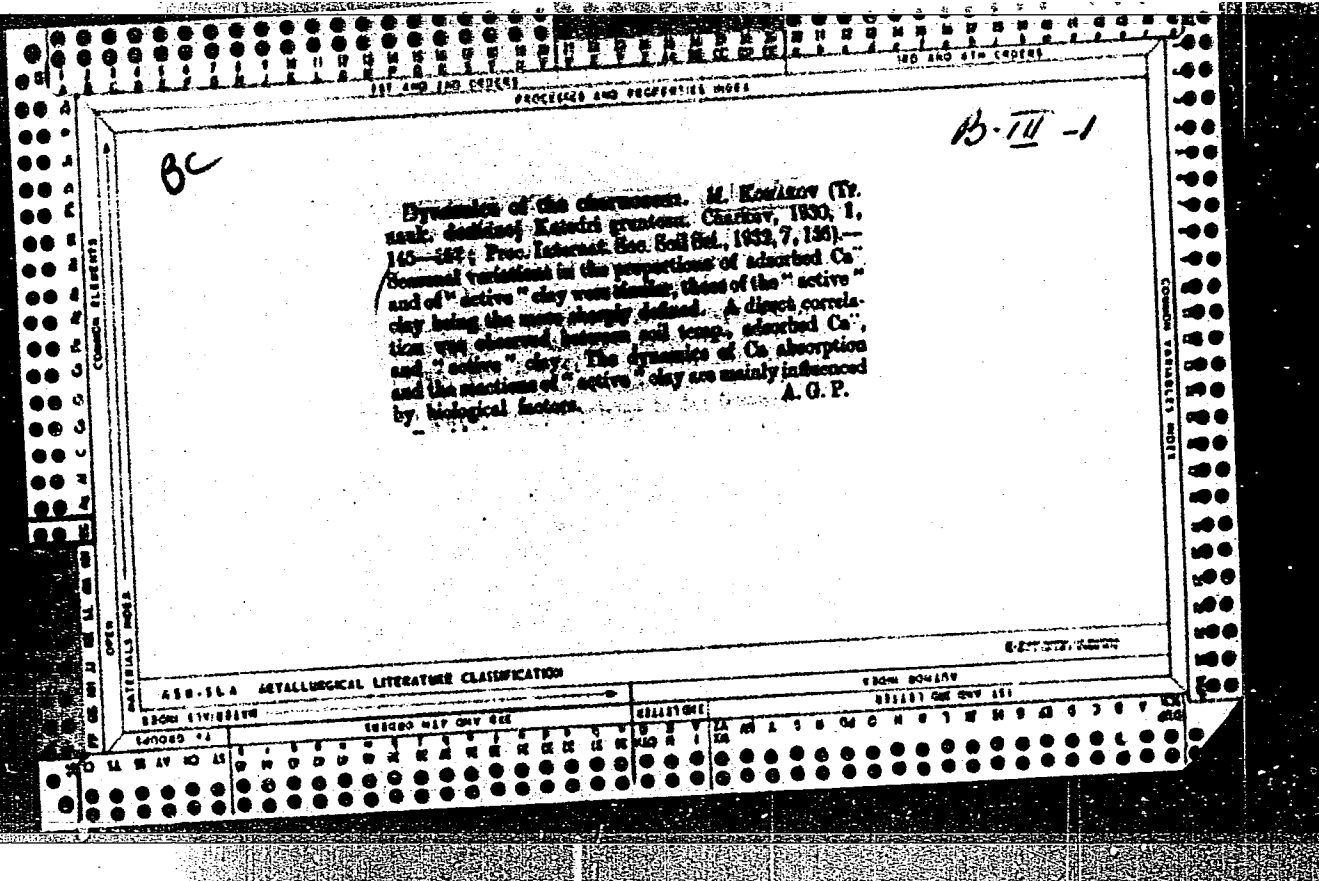
KONAKOV, G.A., kand. tekhn. nauk

Graphic method of determining the start of braking of a reversible engine. Sudostroenie 29 no.6:28-29 Je '63. (MIRA 16:7)
(Marine engineering--Graphic methods)

MAR'YANOVSKIY, I.M.; GORBACHEV, A.G.; RYVKIN, G.M.; RYABOY, A.Ya.;
KONAKOV, G.A.; GRIGOR'YEV, N.I.

Authors' abstracts of dissertations. Vest.mashinostr. 42
no.5:89 My '62. (MIRA 15:5)

1. Leningradskiy politekhnicheskoy institut imeni M.I.Kalinina (for Mar'yanovskiy, Gorbachev).
 2. Moskovskiy stankoinstrumental'nyy institut (for Ryvkin).
 3. Krasnoyarskiy institut tsvetnykh metallov imeni M.I.Kalinina (for Ryaboy).
 4. Khar'kovskiy politekhnicheskoy institut imeni A.A.Zhdanova (for Konakov).
 5. Leningradskiy korablestroitel'nyy institut (for Grigor'yev).
- (Bibliography—Mechanical engineering)



1ST AND 2ND ORDERS PROCESSES AND PROPERTIES INDEX 3RD AND 4TH ORDERS

10

Distribution of phosphoric acid in mechanical soil fractions. M. KOWAKOV.
Trudni nauki. doklady Akademiya nauk. Cherno 1, 173-81(1930).—The major proportion of soil phosphate occurs in the finer soil fractions.
B. C. A.

COMMON VARIANTS INDEX

MATERIALS INDEX

COMMON ELEMENTS

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS	3RD AND 4TH ORDERS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

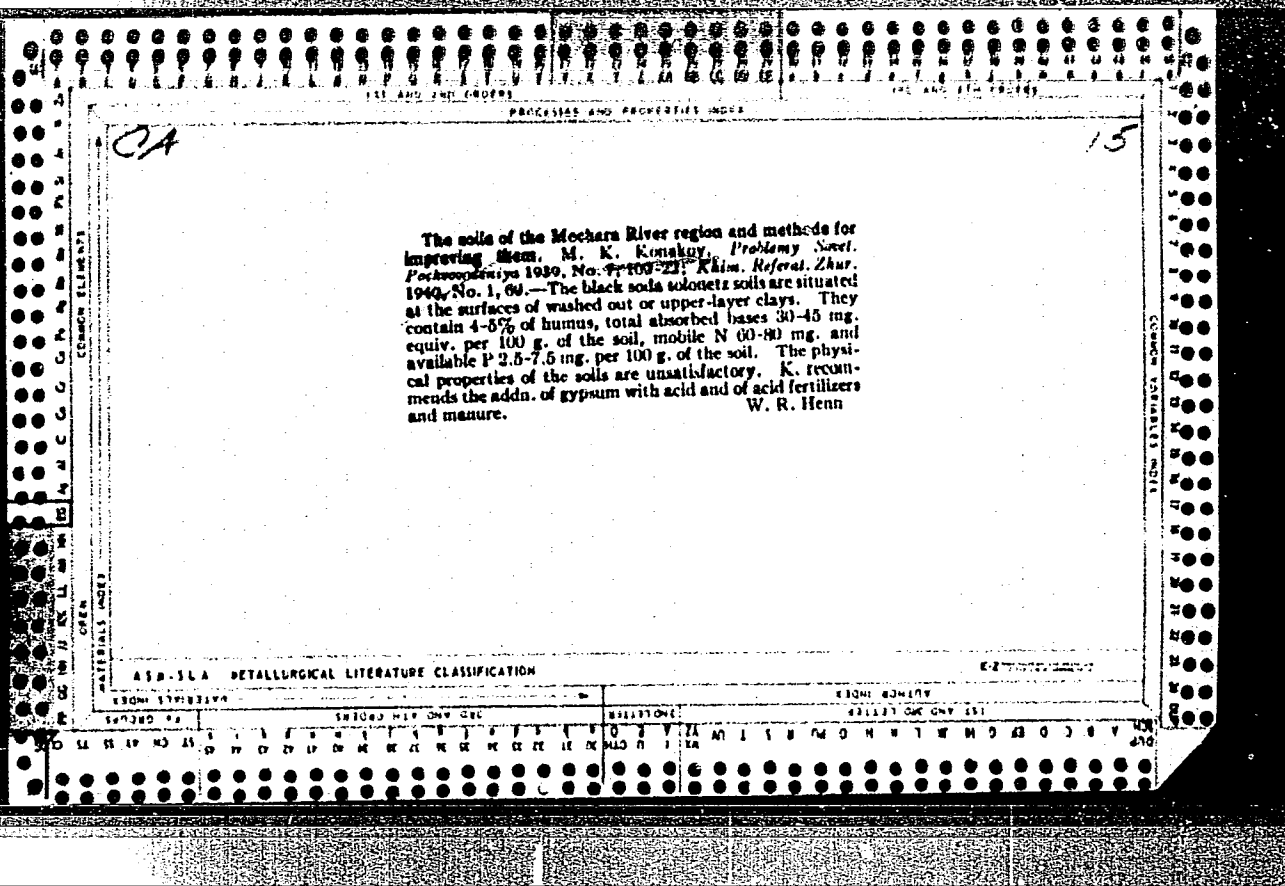
PROCESSING AND PREPARATION INDEX

13-

(1)

Determination of accessible moisture in soil. M. K. Konyukh, *Pedology* (U. S. S. R.) 1918, 125-31; *Chemie & Industrie* 41, 779. -The method consists essentially in shaking a sample of the soil with a soln. of a salt the anion of which is not adsorbed by the soil. The decrease in the anion concn. of the soln. is due exclusively to its diffusion into the capillary (accessible) moisture of the soil, as the unadsorbed anions do not penetrate into the inaccessible hygroscopic and pellicular moisture. Owing to its coagulating properties toward soil, CaCl₂ is particularly well suited for this detn.; the most suitable concn. (generally between 0.01 and 0.05 N) should be detd. by a preliminary test. A. Papineau-Couture

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION



USSR/Meadow Cultivation.

L

Abs Jour : Ref Zhur Biol., No 14, 1958, 63269

Author : Kayzakan, M.A., Konakov, M.K., Mashkevich, N.G.,
Skorokhod, V.G.

Inst : Voroshilovgrad Agricultural Institute.

Title : Meadows of Kolkhoz ineni Budenny of Novo-Aydarskiy
Rayon and Ways to Improve Them.

Orig Pub : Nauchn. zap. Voroshilovgradsk. s.-kh. in-ta, 1956, 4,
No 1, 88-97

Abstract : No abstract.

Card 1/1

N. K. A new form of...
resistance in Schistosoma...

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SULIMOVSKAYA, N.A., doktor med.nauk; KONAKOVA, N.M.; BOGACHEVA, M.Ye.

Therapeutic value of the droplet method of introducing milk into the stomach in peptic and duodenal ulcer. Vrach.delo no.10:108-109 0 '60. (MIRA 13:11)

1. Kafedra terapii (zav. - doktor med.nauk N.A.Sulimovskaya)
Instituta usovershenstvovaniya vrachey i klinicheskaya bol'nitsa goroda Khar'kova.

(MILK--THERAPEUTIC USE)
(PEPTIC ULCER)

KONAKOV, N. N.

IA 29T107

USSR/zoology

Jul/Aug 1947

Fauna

**"Zoogeography of the Southern Kuriles," N. N. Konakov,
2 pp**

"Iz Vsesoyuz Geog Obshchestva" Vol. LXXIX, No 4

There is no other portion of Soviet land which is as large an archipelago and composed of as many islands as the Kuriles. Up to the acquisition of these islands the fauna of the Soviet Union was studied on the basis of continental fauna. Now there is a whole new field of study. Discusses the general fauna of the chain.

16

29T107

KONAKOV, P. K.

"Experiment in Applying Theory of Similarity to Analysis of Operation of Steam-Engine Locomotive." No. 9, 1945. Iz. Ak. Nauk. SSSR. Otdel. Tekh. Nauk.

BR-52059019.

KONAKOV, P. K.

"A New Formula for the Coefficient of Resistance in Smooth tubes," Dok. AN, 51, No. 7,
1946

PA 4742

KONAKOV, P. K.

Apr 1947

USSR/Fuel Economy
Locomotives

"Heating of Feedwater in Locomotives," P. K. Konakov,
3 pp

"Za Ekonomiya Topliva" Vol IV, No 4

Author describes his new water-heater, of greater
simplicity and economy. Gives two cross sections and
a graph of operating data.

4742

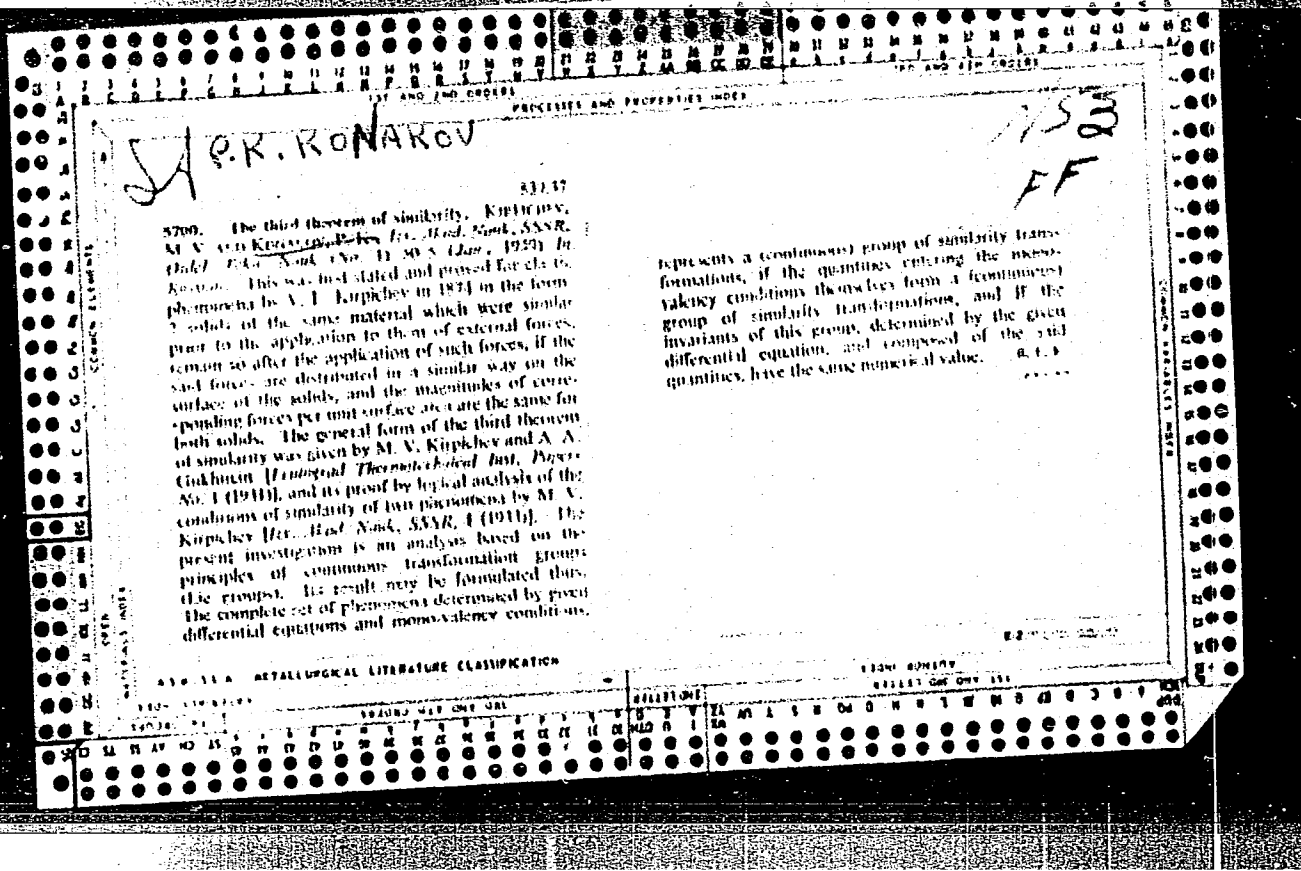
KONAKOV, P.K., doktor tekhnicheskikh nauk

Direct heat emission from locomotive fireboxes. Tekh.zhel.dor.
6 no.9:17-19 S'47. (MLRA 8:12)

(Locomotives--Fireboxes)

K. Nakov, P. K. ...

etre envisage comme ...
A. Federman [cf. Ann. [Izvestia] Inst. Polytech. St. Peters-
bourg 19 ...]



KONAKOV, P. K.

PA 161T59

USSR/Engineering - Hydrodynamics

Oct 49

"Some Regularities of the Turbulent Motion of Liquids in Pipes," P. K. Konakov, Power Eng Inst imeni G. M. Krzhizhanovskiy, 13 pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 10

Develops new formulas for curve of velocity distribution and for coefficient of hydraulic resistance during turbulent motion of liquids in round pipes. Submitted by Acad M. V. Kirpichev.

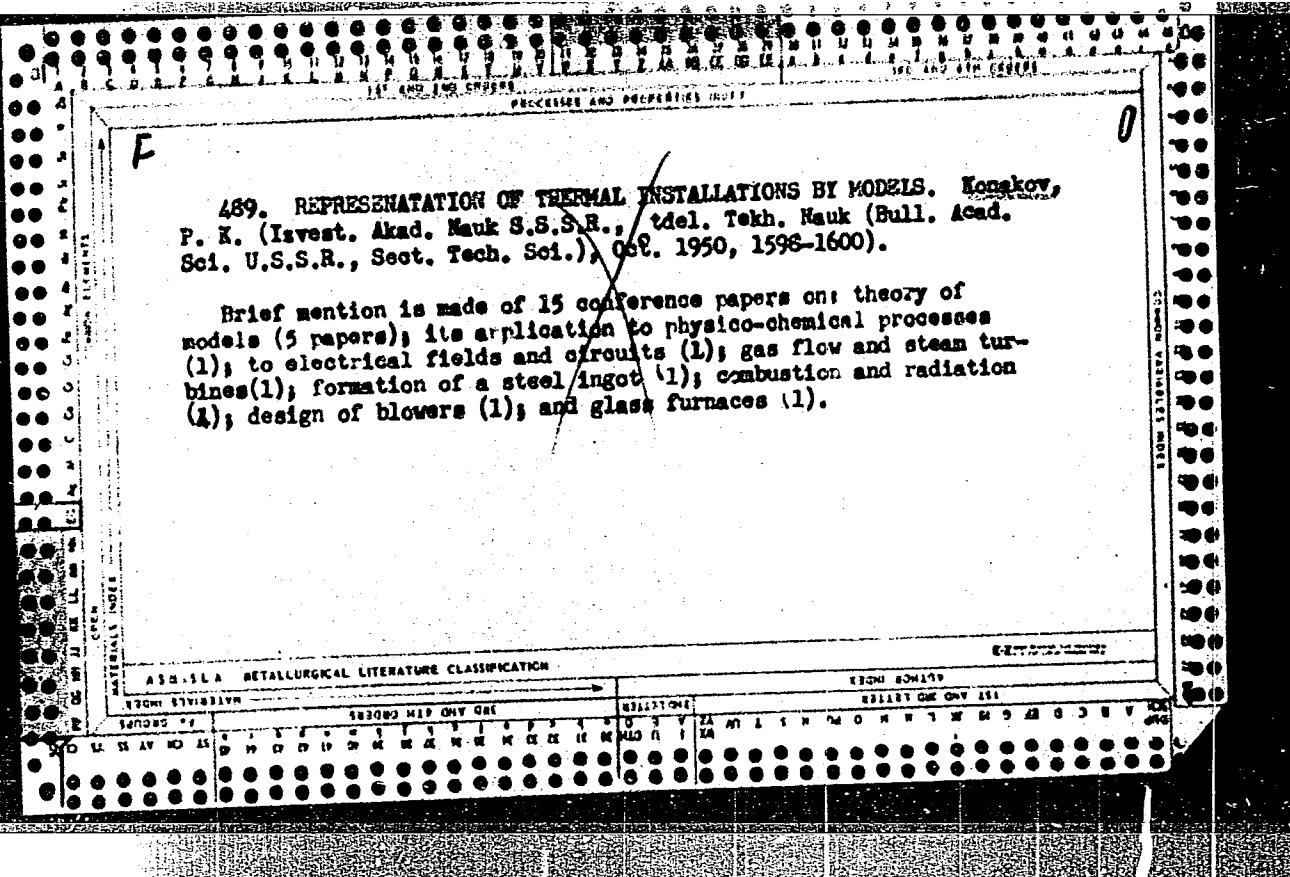
161T59

KONAKOV, P. K.

30459

Pryamaya otdacha parovoznoy topki. Trudy mosk. Elyektromyekhan.
In-ta inzyezyerov Z.-A. Transporta im dzyerzinskogo vyp. 59, 1949,
S. 3-31.

SO: Letopis' No. 34



KONAKOV, P. K.

168T23

USSR/Engineering - Heat, Furnace
Boiler Furnace

Jun 50

"Supply of Heat in the Boiler Furnace," P. K. Konakov,
Power Eng Inst imeni Krzhizhanovskiy, Acad Sci USSR

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 6, pp 888-900

Considers process of heat supply in furnace chamber
of steam boiler. Obtains new heat-supply equations on
basis of similarity theory (dimensional analysis),
which determine temperature of gases in output end of
firebox. Submitted 19 Oct 49 by Acad M. V. Kirpichev.

168T23

PROCESSES AND PROPERTIES INDEX

371. HEAT TRANSFER IN BOILER FIRE BOXES. Konakov, P. K. (Doklady Akad. Nauk SSSR (Rep. Acad. Sci. U.S.S.R.), 1950, vol. 72, 501-502; abstr in Chem. Abstr., 1951, vol. 45, 2647). The equation relating the theoretical absolute temperature of combustion of the fuel (T_1) and the absolute temperature of the gases leaving a given cross section of the fire box (T_2) is $(T_2/T_1) = (1 - \pi)/(1 - 1.7\pi)$, where π is an invariant function, having the dimensions of (degree)⁻¹, of (temperature of the surface being heated)³, (black body radiation coefficient), (radiant surface), (fuel consumption)⁻¹, (volume of burned gas/fuel unit)⁻¹, and (specific heat of the burned gas)⁻¹. C.A.

METALLURGICAL LITERATURE CLASSIFICATION

ECONOMY

ECONOMY

ECONOMY

KONAKOV, P. Y.

Theory of similarity and its utilization in locomotive theromotechnics
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1951. 215 p.
(55-30597)

TJ690.K6

KONAKOV, P. K.

PA 244T55

USSR/Engineering - Heat, Boilers

Mar 52

"Heat Transfer in Boiler Furnaces," P. K. Konakov

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 3, pp 367-373

Analyzes results of experimental investigations conducted in USSR on furnaces using various fuels and establishes most probable value for factor of blackness, suggesting these values for use in designing boiler furnaces. Basing on insignificant variation of blackness factor in different boiler furnaces, develops simplified formula for approximate calculations. Submitted by Acad M. V. Kirpichev, 3 Sep 51

244T55

USSR

2530. Konakov, P. K., Some laws of heat exchange by radiation (in Russian), *Izv. Akad. Nauk SSSR Otd. Tekh. Nauk* no. 12, 1847-1855, Dec. 1953.

Author deals with a few examples of heat exchange, including absorption of the transmitting medium by using the concept of radiation energy vector and the vector calculus.

Y. R. Mayhew, England

KONAKOV, P.K., professor, redaktor; MAKHAN'KO, M.G., kandidat tekhnicheskikh nauk, redaktor; YUDZIN, D.M., tekhnicheskiiy redaktor

[Ejector-type smokestacks on locomotives] Nshktsionnye dymovytiazhnye ustanovki parovozov. Moskva, Gos. transp. zhel-dor. izd-vo, 1954.
195 p. (MLRA 8:3)
(Locomotives--Design)

KONAKOV, P.K.

LAKHANIN, Vladimir Vladimirovich, prof. doktor tekhn.nauk; YUDITSKIY, F.L.,
retsensent; KONAKOV, P.K., red.; SHLNNIKOVA, Z.V., red. izd-va;
TSVETKOVA, S.V., tekhn.red.

[Heat calculations for marine steam equipment based on the theory
of similitude] Teplovoi raschet sudovykh parovykh mashin, osnovan-
nyi na teorii podobia. Moskva, Izd-vo "Rechnoi transport," 1957.
137 p. (MIRA 11:2)

(Marine engines) (Dimensional analysis)

~~KONAKOV, Patr. Kuznetich, professor~~; MAKHAN'KO, M.G., kandidat tekhnicheskikh nauk, redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor

[Theoretical principles of heat engineering] Teoreticheskie osnovy teplotekhniki. Moskva, Gos.transp.shel-dor.isd-vo, 1957. 298 p.
(Heat engineering) (MLBA 10:9)

R 22 7 1957, L.R.
KONAKOV, P.K., doktor tekhnicheskikh nauk; FILIMONOV, S.S., kandidat
tekhnicheskikh nauk; KHURSTALEV, B.A., kandidat tekhnicheskikh nauk.

Calculation of heat exchange in boiler furnaces [with summary in
English]. Teploenergetika 4 no. 6:48-53 Ag '57. (MLRA 10:9)

1. Energeticheskiy institut Akademii nauk SSSR.
(Boilers) (Heat--Transmission)

KONAKOV, P.K.

AUTHOR: KONAKOV, P.K., FILIMONOV, S.S., KHRUSTALEV, B.A. PA - 3562
TITLE: On the Calculation of Radiative Heat Exchange in a Cooled Combustion Chamber. (K rashetu luchistogo teploobmena v okhlazhdayemykh kamerakh gorennya, Russian)
PERIODICAL: Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 5, pp 1066 - 1075 (U.S.S.R.)
ABSTRACT: A scheme for the heat exchange process in combustion chambers is suggested, which makes it possible to determine the required radiation temperature T_s and to calculate the radiation heat exchange. It is assumed that near the heat absorbing surfaces there is a layer of the medium which is in equilibrium with radiation, the molecular temperature of the medium and the radiation temperature being equal to each other. It is assumed that on the way from the balanced layer to the wall radiation is not in interaction with the medium, i.e. there is a transfer of radiation energy by effusion. It is therefore assumed that the temperature of this layer is equal to the T_s on the heat-absorbing surface. The temperature of the balanced layer adjusts itself in accordance with an interaction between the medium and the radiation in the core of the flow. The molecular-kinetic temperature of the balanced layer is determined by means of a field analysis of the molecular temperatures of the ignition chamber. Thus, the balanced layer divides the ignition chamber into two zones: one that is close against the

Card 1/2

16(1)

PHASE I BOOK EXPLOITATION

SOV/2652

Konakov, Petr Kuz'mich

Teoriya podobiya i yeye primeneniye v teplotekhnike (The Theory of Similitude and Its Application in Heat Engineering) Moscow, Gosenergoizdat, 1959. 207 p. 5,500 copies printed.

Ed.: P. M. Brdlik; Tech. Ed.: G. I. Matveyev.

PURPOSE: This book is intended for scientific workers and engineers working in the fields of theoretical heat engineering.

COVERAGE: The author examines the equations of the process of motion of continuous media and the conditions of the single-valuedness of these equations. The foundations of the theory of similitude are presented and applications of this theory to certain heat engineering problems are given. The author uses as the basis for his study the analysis of a closed system of equations which defines a phenomenon. The book discusses dimensional analysis as the analysis

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The Theory of Similitude (Cont.)

SOV/2652

of equations which describe a phenomenon under study in general form. The author thanks Professor A. V. Lykov, Member of the Academy of Sciences, BSSR, for reviewing the book, and P. M. Brdlik, Candidate of Technical Sciences, for editing the book. There are 35 references: 30 Soviet, 2 French, 2 English, and 1 German.

TABLE OF CONTENTS:

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Introduction	5
Ch. I. Equations of the Nonstationary State of a Continuous Medium and Conditions of Being Single Valued	13
1. Equations of the conservation of mass and energy	13
2. On the motion of energy	19
3. Equations of motion of a medium with molecular transfer of mass and energy	33
4. Equations of motion of a medium with molar transfer of mass and energy	35
5. Transfer equations of radiant energy	40

Card 2/4

KUMSKOV, V.T., kand.tekhn.nauk; KONAKOV, P.K., doktor tekhn.nauk;
NIKITIN, Ye.A., inzh.; AKSENOV, K.F., kand.tekhn.nauk;
GUTKIN, L.V., kand.tekhn.nauk; BOBROVA, Ye.N., tekhn.red.

[Thermal processes in electric and diesel locomotives] Teplo-
nye protsessy teplovozov i elektrovozov. Moskva, Vses.izda-
tel'sko-poligr.ob'edinenie M-vo putei soobshchenia, 1960. 178 p.
(MIRA 13:11)

(Diesel locomotives)

(Electric locomotives)

KONAKOV, Petr Kuz'mich, prof., doktor tekhn.nauk; FILIMONOV, Sergey
Sergeyevich, kand.tekhn.nauk; KHRUSTALEV, Boris Aleksandrovich,
kand.tekhn.nauk; ARNOL'D, L.V., prof., retsenzent; LAKHANIN,
V.V., prof., doktor tekhn.nauk, nauchnyy red.; SHLENNIKOVA,
Z.V., red.isd-va; BODROVA, V.A., tekhn.red.

[Heat exchange in the combustion chambers of steam boilers]
Teploobmen v kamerakh sgoraniya parovykh kotlov. Moskva, Izd-vo
"Rechnoi transport," 1960. 269 p. (MIRA 13:5)
(Boilers) (Furnaces)

KONAKOV, P.K., doktor tekhn. nauk

New contribution to the theory of heat and mass exchange. Izv.
ASIA no.2:126-127 '60. (MIRA 13:7)
(Mass transfer) (Heat--Transmission)

KONAKOV, P.K., doktor tekhn.nauk, prof.

Mass and energy transfer law. Trudy MIIT no.125:4-39 '60.

(Mass transfer) (Heat--Radiation and absorption) (MIRA 13:10)

KONAKOV, P.K., doktor tekhn.nauk, prof.

Thermal process equations for combustion chambers. Trudy MIIT
no.125:40-75 '60. (MIRA 13:10)

(Combustion)

KONAKOV, P.K., doktor tekhn.nauk, prof.

Some features of complex heat exchange. Trudy MIIT no.125:76-103
'60. (MIRA 13:10)

(Heat--Transmission)

S/649/61/000/139/001/018
1028/1228

AUTHOR: Konakov, P. K.
TITLE: The theory of similitude and the prospects for its use in heat engineering
SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 139. 1961.
Teoriya podobiya i yeye primeneniye v teplotekhnikey trudy pervoy mezhvuzovskoy konferentsii, 4-10

TEXT: The principles of the theory of similitude, based on J. Bertrand's articles, namely—equation analysis and dimensional analysis—are defined, and the non-stationary equations of motion of a compressible fluid are analysed by both methods. The two methods are not opposed to each other and lead to the same invariant relationships. The possibilities of use of the theory in heat engineering—in the analytic solution of problems, the processing of experimental data, the modeling of phenomena—are mentioned. The author recommends that attention be given to the problem of the use of nonlinear transformations. ✓

ASSOCIATION: Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute of Railway-Transport Engineers)

Card 1/1

S/649/61/000/139/006/018
1028/1228

AUTHOR: Konakov, P. K.
TITLE: Some laws of complex heat exchange
SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 139. 1961.
Teoriya podobiya i yeye primeneniye v teplotekhnike; trudy pervoi mezhvuzovskoy konferentsii, 82-84

TEXT: The paper investigates a connection between heat transfer by radiation and heat transfer by conduction and convection. Formulas determining the complex heat exchange (defined as heat transfer by radiation, coduction, and convection) for the cases of a viscous medium impinging on a solid wall and the stationary motion of the medium in a circular pipe, are given. The radiant and convective heat transfers are interrelated. ✓

ASSOCIATION: Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute of Railway Transport Engineers)

Card 1/1

KONAKOV, P.K.

Present state of the similitude theory and prospects for using it in heat engineering. Trudy MIIT no.139:4-10 '61. (MIRA 16:4)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta. (Heat engineering) (Dimensional analysis)

KONAKOV, P.K.

Some laws governing complex heat exchange. Trudy MIIT no.139:82-84 '61.
(MIRA 16:4)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta.
(Thermodynamics) (Heat exchangers)

S/649/61/000/139/017/018
1028/1228

AUTHORS: Konakov, P. K., Smirnov, V. A. and Verevochkin, G. E.
TITLE: Criteria for the thermal process of obtaining ingots by Chokral'skiy's method
SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 139. 1961. Teoriya podobiya i yeye primeneniye v teplotekhnike; trudy pervoi mezhvuzovskoy konferentsii, 210-217

TEXT: The paper describes a heat process for ingot growth and determines its criterial relationships. In the Chokral'skiy method, a priming fastened to a rotating shaft that can also move along the vertical is introduced into a melt contained in a vacuum furnace; an ingot is thereby extracted from the melt, passing during its growth through zones of different temperatures. The extraction of the ingot is described by its equations for continuity, motion and heat propagation of the melt, and the equation for heat propagation in the ingot. The conditions of single-valuedness are added to these equations. (a) At the boundary between the solid and liquid phases, the equations of matter and heat balance connect the magnitudes appearing in the equations. (b) This process is non-stationary; (c) The physical constants of the melt and the ingot depend on temperature of the melt and the ingot and criterial equations are determined as a results. There is 1 figure.

ASSOCIATION: Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute of Railway Transport Engineers).

Card 1/1

KONAKOV, P. K.

"Substance and Energy Transfer"

Report submitted for the Conference on Heat and Mass Transfer, Minsk,
BSSR, June 1961.

Institute of Railway Eng'g., Moscow

S/170/62/000/006/011/011
B117/B138

AUTHOR: Konakov, P. K.

TITLE: Theory of similarity and its application to heat engineering

PERIODICAL: Inzhenerno-fizicheskij zhurnal, no. 6, 1962, 132 - 135

TEXT: Two recent publications on the theory of similarity are briefly reviewed. The first one is a collection of reports delivered at the First Conference of Schools of Higher Education on the Theory of Similarity and Its Application to Heat Engineering. This conference was held in June 1960 at the Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute of Railroad Transportation Engineers), and attended by about 500 staff from higher educational establishments, scientific research and planning organizations. Reports on the present state of the theory of similarity and its further development were delivered at the plenary meetings. The conference work was divided into three sections: theory, heat-mass exchange, and heat engines. A. V. Lykov spoke about the necessity of a strictly mathematical definition of the problems of similarity; A. A. Gukhman about indices in the theory of similarity and obsolete ideas of "determinant" and "determinable" criteria; V. A. Venikov.

Card 1/2

Theory of similarity and its ...

S/170/62/000/006/011/011
B117/B138

about the interrelations of physical and mathematical simulations and computer engineering. The other publication on the theory of similarity (A. S. Nevskiy's book) is criticized as being obsolete and faulty.

SUBMITTED: February 26, 1962

Card 2/2

STREL'TSOV, V.V.; SHCHUKIN, V.K.; REBROV, A.K.; FUKS, G.I.; KUTATELADZE, S.S.;
LYKOV, A.V.; PREDVODITELEV, A.S.; KONAKOV, P.K.; DUSHCHENKO, V.P.;
MAKSIMOV, G.A.; KRASNIKOV, V.V.

Readers' response to I.T. El'perin's article "Terminology of heat and
mass transfer" in IFZh No.1, 1961. Inzh.-fiz. zhur. 5 no.7:113-133
Jl '62. (MIRA 15:7)

1. Khimiko-tekhnologicheskii institut, g. Ivanovo (for Strel'tsov).
 2. Aviatsionnyy institut, Kazan' (for Shchukin, Rebrov).
 3. Politeknicheskii institut, Tomsk (for Fuks).
 4. Institut teplofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk (for Kutateladze).
 5. Energeticheskii institut AN BSSR, Minsk (for Lykov).
 6. Gosudarstvennyy universitet imeni Lomonosova, Moskva (for Predvoditelev).
 7. Institut inzhenerov zheleznodorozhnogo transporta, Moskva (for Konakov).
 8. Institut legkoy promyshlennosti, Kiyev (for Dushchenko).
 9. Vsesoyuznyy zaochnyy institut pishchevoy promyshlennosti, Moskva (for Maksimov).
 10. Tekhnologicheskii institut pishchevoy promyshlennosti, Moskva (for Krasnikov).
- (Heat--Transmission) (Mass transfer)

KONAKOV, P.K.

Similarity theory and its use in heat engineering. Inzh. fiz.
zhur. 5 no.6:132-135 Je '62. (MIRA 15:12)
(Dimensional analysis)
(Heat engineering)

L 14421-63 EPF(c)/EPR/EPF(n)-2/EWP(r)/EWT(1)/BDS AFFTC/ASD/SSD Pr-4/
ACCESSION NR: AP300305L Fu-4/P8-4 IJP(C)/WW S/0170/63/000/006/0128/0136

AUTHOR: Konakov, P. K. (Moscow)

TITLE: Energy transfer in a gray medium

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 6, 1963, 128-136

TOPIC TAGS: energy transfer, gray medium, absorption coefficient

ABSTRACT: The gray medium consists of two related components (a molecular material and radiation), both of which take part in energy transfer. Use is made of the formal identity between the equations of heat conduction, electrical conduction, diffusion and filtration, in conjunction with the thermodynamic derivation, of the equation of heat conduction.

The article is a continuation of earlier treatments of the subject by the author [Konakov P. K. (Teoriya podobiya i yeye primeneniye v teplotekhnike. Gosenergoizdat, 1959; O zakone perenosa massy i energii. Trudy MIIT, Vol. 125, Transzheldorizdat, 1960)]. The transfer can be treated as two independent processes (molecular and radiative transfer), linked only by their relation to the

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L 14421-63

ACCESSION NR: AP3003054

molecular material. This implies that the absorption coefficient of a gray medium is directly related to the thermal conductivity. Only strictly equilibrium conditions are envisaged. The working equations are quoted from the earlier papers. Original article has: 67 formulas.

ASSOCIATION: Institut Inzhenerov zheleznodorozhnogo transporta, Moscow
(Institute of Railroad Engineers)

SUBMITTED: 28May62

DATE ACQ: 22Jul63

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 000

Card 2/2

LYKOV, A.V., akademik, red.; SMOL'SKIY, B.M., doktor tekhn. nauk, prof., red.; GINZBURG, I.P., doktor fiz.-matem. nauk, prof., red.; ZABRODSKIY, S.S., doktor tekhn. nauk, red.; KONAKOV, P.K., doktor tekhn. nauk, prof., red.; KOSTERIN, S.I., doktor tekhn. nauk, prof., red.; SHUL'MAN, Z.P., inzh., otv. za vypusk; KORIKOVSKIY, I.K., red.; LARIONOV, G.Ye., tekhn. red.

[Heat and mass transfer] Teplo- i massoperenos. Moskva, Gos-energoizdat. Vol.3.[General problems of heat transfer] Obshchie voprosy teploobmena. 1963. 686 p. (MIRA 16:6)

1. Akademiya nauk Belorusskoy SSR (for Lykov).
(Heat--Transmission) (Mass transfer)

KONAKOV, P. K.

"On the mass- and energy-transfer law."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12
May 1964.

Moscow Inst of Railway Transport Engineers.

KONAKOV, P.K.

Use of the differential method in studying radiant heat transfer.
Inzh.-fiz. zhur. 8 no.3:401-402 Mr '65. (MIRA 18:5)

1. Institut inzhenerov zheleznodorozhnogo transporta, Moskva.

... Investigation of heat exchange in ...

... 44

... Sumokov, V. I. ...

... the problem of complex heat ...

... investigation of heat exchange in ...

Investigation of heat exchange in

... investigation of heat exchange in ...

... investigation of heat exchange in ...

... investigation of heat exchange in ...

... investigation of heat exchange in ...

115016479

... drawing system of boundary layer ...

$$\frac{\partial T}{\partial x} = \dots$$

$$\frac{\partial T}{\partial x} = \dots$$

$$\frac{\partial T}{\partial x} = \dots$$

... this system of equations is

$$T - T_{\infty} = 0.992(T_0 - T_{\infty}) \sqrt{\frac{\nu x}{\pi}} + 0.008(T_0 - T_{\infty}) \sqrt{\frac{\nu x}{\pi}} \dots$$

... describes the temperature ...
 ... energy. In this article ...
 ... energy in the boundary layer ...
 ... an optical factor ...
 ... the optical density ...
 ... the boundary layer ...

the overall flow of heat energy at the wall disappears. EQUATIONS
describing the overall heat flow

and the energy balance equations for the system are
written by the authors.

and

and

and

... (mirrored text) ...

... 43
72
84

... Kamskov, V. ...
... exchange and hydraulic ...

... (mirrored text) ...

... thermodynamic analysis, heat exchange, ...

ABSTRACT: This article examines the problem of complex heat exchange and hydraulic drag in a moving gray fluid with high optical density. ...
Near the surface of the plate a laminar boundary layer is ...
temperature boundary layer ...

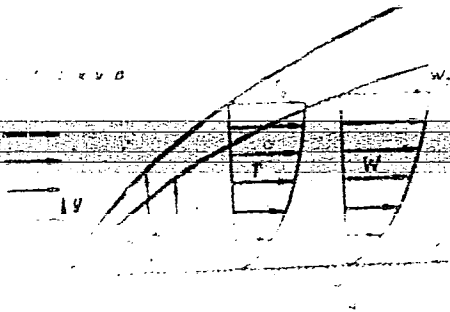


Fig. 1. Diagram of the hydraulic system.

KONAKOV, P.K.

Law of mass and energy transfer. Inzh.-fiz. zhur. 9 no.3:
337-347 S 165. (MIRA 18:9)

1. Institut inzhenerov zheleznodorozhnogo transporta, Moskva.