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KOGAN, Vladimir Borisovich; FRIDMAN, Viktor Mikhaylovich; KAFAROV, Viktor Vyachealavovich; SUSHKOVA, T.I., red.1zd-va; SOROKINA, V.A., tekhn. red. [Manual on solubility]Spravochnik po rastvorimosti. Moskva, Isd-vo Akad.nauk SSSR. Vol.2. [Ternary multicomponent systems] Troinye, mnogokomponentnye sistemy. Book 2. 1963. 2066 p. (MIRA 16:4) 1. Moscow. Vsesoyuznyy institut nauchnoy i tekimicheskoy informatsii. (Systems (Chemistry)) (Solubility) 

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	of the liquid	s/076/63/037/001, B108/B186		
liquid phases	. Solving these equations to	gether with the equi	ation	
$P = p_1 a_1 + p_2$	$a_2 + p_{3}a_3$ gives the values of	a1, a2, a, by succ	essive	
approximation y <sub>i</sub> of the com	With these it is possible to opponents in the vapor: $y_1 = p_1^{o_1}$ re, the $p_1^o$ are the vapor pressure.	to calculate the mo: $a_i/P$ (i = 1,2,3).	lar fractions P is the	
the ternary a n-propylaceta	emperature. The applicability systems ethanol-dichloro ethane te. The calculated and experi	y of the formulas we e-water and n-propar imental results are	as tested on	
agreement. 1	there are 1 figure and 3 tables	3.	V	
ASSOCIATION:	Gosudarstvennyy institut prik of Applied Chemistry)	(ladnoy khimii (Stat	e Institute	
SUBMITTED:	July 14, 1961			,
Card 2/2				



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	ACCESSION NR: AP4043766		S	\$/0080/64/037/0	08/1776/1786	i t
t. La chairte	AUTHOR: Komarova, Ye. G.; Kog	an, V. B.				-
	TITLE: Investigation of equi nitromethane-nitroethane	librium liqui	d-liquid-vapo	in the system	nheptane-	
	SOURCE: Zhurnal prikladnoy kh	imii, v. 37,	no. 8, 1964, 1	1776-1786		
•	TOPIC TAGS: heptane, nitromet paraffin, helium	hane, nitroet	hane, chromato	graphy, paraff	in, nitro-	
č	ABSTRACT: The authors have der gas-liquid chromatography for during an investigation of equi- three-component system at tempe investigation were purified of column measuring 1.2 m in heigh cap in the form of 2x2 mm wire achieved through the use of so of 1:4, in the capacity of a se umns with lengths of 2-3 m and Card 1/2	letermining p llibrium betw aratures of 20 admixtures b nt and 18 mm spirals. An lid paraffin ationary pha	hase compositi een the liquid 0,40 and 70°C. y way of fract in diameter. effective sep applied on dia se. Soiral.	ons. The design phases and vages The reagents ional distillar The column was paration of comp tomite bricks	gn was tested oor in a used in this tion on a, topped by a conents was at a ratio ranbic colm	
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	ACCESSION NR:	AP4043766					
	vices include obtained expe tions. The c cients. Hept The authors c liquid-vapor, the instrumen	as 99.5 $\pm 0.3^{\circ}$ C. d a catarometric rimental data wa hromatographs we ane was used as oncluded that th agree thermodyn its make it possil phases and vapor	indicator and a s verified by me re interpreted b a comparable com e experimental c amically with ea ble to obtain re	In EPP-09 elect ans of strict by introducing ponent with a lata obtained o the other. Thu bliable results	ronic potent thermodynami standardizat coefficient n the equili s the simple on the equi	iometer. The c correla- ion coeffi- equal to 1. brium liquid design of librium best	
	ASSOCIATION:	none					
•	SUBMITTED:	12Nov63			ENCL: 00		
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	STATUC
L 10784-66 ENT (#)/ENP(1) RM ACC NR AP6000009	
AUTHOR: <u>Sivtsova</u> , <u>B.V.;</u> Kogan, <u>V.B.</u> ; Ogorodnikov, S.K. <sup>44455</sup>	
- The second sec	
TITLE: Use of <u>gas-liquid distributing chromatography</u> in the choice of a separation agent for extraction rectification for mixtures of <u>methyl-</u> SOURCE: 744, G	
manual (144) St.	
SOURCE: Zhurnal nutbled	
SOURCE: Zhurnal prikladnoy khimii, V.38, no.11, 1965, 2609-2611	
TOPIC TAGS: chromatography, rectification, silane	
ABSODACE	
detector The experiments were non-	
ABSTRACT: The experiments were performed on a gas chromatograph with a tic recording device. The chromatograph with a	
UCINE TORTAL DE L'UNE CU VAIGHE DE L'UNE CAUCULUITION	
Dethylohlows	c.
KIVAS A FALL	•
Breatly increased the relative voletility of the substances tested	•
greatly increased the relative volatility of the substances tested <u>Card 1/2</u>	
UDO: 543.544 + 542.61	

ACC NR. AF600 methyldichloro to the greates temperature de methylchlorosi of the tests s volatility of 2 formulas and	bilane, to t degree, pendence lanes for how that the composite	of the r the mos with an	elative t effec	volatil tive ser	A Stud Lity cos Daration	y was made fflcients agents.	of the of the Results
SUB CODE: 07/	SUBM DA	TB: 12Ap	c65/ (	ORIG REF	2: 001/	OTH REF:	014
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L 8080-66 EWT(m)/EPF(c)/EWP(1)/T/EWA(c)/ETC(m; RPL DS/WW/RM	
44, 51 44, 51 BOORCE CODE: 0R/0080/65/038/011/2617/2618	
AUTHOR: Tolstova, T. S.; Kogan, V. B.; Skorokhodova, V. L. ORG: none 43	teri anti- păliteri
TITLE: Liquid-vapor equilibrium in <u>nitrobenzene-nitromethane</u> and nitrobenzene-nitro-	
SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 11, 1965, 2617-2618	
TOPIC TAGS: nitromethane, nitrobenzene, physical chemistry property, liquid vapor equilibrium, fluid property, CHEMICAL EQUILIBRIUM	
ABSTRACT: This paper presents for the first time data on liquid-vapor equilibrium 7 in systems consisting of nitrocompounds: nitromethane (10-90 mol%)-nitrobenzene, and nitroethane (10-90 mol%)-nitrobenzene. It was found that the activity coef- ficients for nitromethane and nitroethane are approximately equal in mixtures of	
analogous composition: 1.259-1.023 and 1.24-1.014, respectively. Orig. art. has: 4 tables.	-
SUB CODE: 07 / SUBM DATE: 15Nov63/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS:	
Card 1/1 UDC: 541.127	

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	AUTHOR:	Kogan, V.D.	SOV/11-58-11-8/14
	TITLE:	On the Connection of Sulfuration with Fra (O svyazi oserneniya s treshchinnoy tektor	oture Tectonice
	PERIODICAL:	Izvestiya Akademii nauk SSSR, Seriya geolo Nr 11, pp 97 - 109 (USSR)	ogicheskaya, 1958,
	ABSTRACT :	Detailed studies of the sulfur bearing lay dak (Turkmen SSR) deposits showed that process was closely connected with the sys in the calcareous-anhydrite stratum of the fractures were filled with epigenetic sulf nary Period. There are 3 tables, 4 charts 8 Soviet references.	the sulfuration stem of fractures deposit. These
۰ ایر ۱۹۰۰ م	ASSOCIATION: SUBMITTED:	Institut geologiii AN TurkmSSR, g. Ashkhat of Geology of the AS of the Turkmen SSE August 14, 1957	oad (The Institute R, Ashkhabad)
		1. Geology 2. Geophysics 3. SulfurGeolog	gy 4. Geochemistry
	Card 1/1		
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3(8) AUTHOR:	Kogan, V. D.	sov/20-125-5-41/61
TITLE:	On the Genesis of Native Sulphur (	K genezisu samorodnoy sery)
PERIODICAL:	Doklady Akademii nauk SSSR, 1959, (USSR)	Vol 125, Nr 5, pp 1103-1105
ABSTRACT: Card 1/3	There are various views concerning and others). Among them, the forma gypsum reduction and the substitut calcite in situ is alloted a signi investigation of sulphur ores cite taining rocks of Gaurdak make solution of this problem from the determined that the accessory min the gypsums (anhydrites) deviate f sulphur occurrence of Gaurdak can b mately equal large groups: I) Grain of sulphur, intergrowths of the la and larger), along with pores, cav commonly filled with calcite. Char predominantly lies in the lower pa however, in the upper part. II) (so	tion of "ulphur deposits by ion of gypsum by sulphur and ficant place (Ref 3). The d by the author and the con- it possible to approach the other standpoint. It was marals of the limestones and rom each other (Tabb 1). The divided into 2 approxi- is of wellformed crystals itter (0.5 - 1 mm to 2 - 5 cm rerns and fractures which are factoristic is that sulphur art of the cavities, calcite

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On the Genesis of Native Sulphur SOV/20-125-5-41/61 the fine grained sulphur (tenths and hundredths of a mm) forms a fine intergrowth with calcite. These occurrences usually form thin strata, which are reminescent of those in gypsum and anhydrite. There are no differences of opinion concerning the epigenetic character of the first group (Refs 1,2,4-7). The genesis of the second group remains unexplained. The following assumptions were made to clarify this problem: if one part of the sulphur deposit was formed by gypsum replacement, the other by replacement of limestone, then 1) the accessory minerals of the first group must be equal to the accessories of the gypsums. 2) the accessories of the second group of sulphur deposits must be equal to the accessories of the limestones. In order to verify this assumption the insoluble residues were obtained from gypsum, anhydrite and various ore and limestone types. Most of the accessory minerals constitute only tenths and hundredths of a percent, with the exception of gypsum, anhydrite, celestine, quartz, iron sulphide, and iron hydroxide. Table 1 shows the results of the comparison. The data show the containing rocks (gypsums, anhydrites, limestones). The sulphur occurrences can be divided into 2 groups according to the Card 2/3accessory minerals: A) with a relative slight total quantity 

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	of Native Sulphur		SOV/20-125-5-		
	of accessories with grea dispersed deposits (howe of the first group. B) a (chiefly celestine and su variation of different m the first group and a par shows, in addition to oth part of the dispersed dep ment (definitely metasome by sulphur. This replaces of the stratification and are 1 table and 9 referen	higher total qu higher total qu lphide) with a r inerals. Here be rt of the becond her things (Ref posit originated atosis) of the a ment ensues both	and individual nantity of acce celatively slig elong a large p l. The material 2), that at lea by a direct r nhydrites (via from micro-fre	samples ssories ht art of quoted ast a splace- gypsum)	
ASSOCIATION:	Institut geologii Akademi of the Academy of Science	4 marsh Munturan	1-	Geology	
PRESENTED:	December 26, 1958, by N.				
SUBMITTED:	December 15, 1958			2 - A - A - A - A - A - A - A - A - A -	
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### L 29298-66 EMT(1)/-IJP(c)GO ACC NR. AP6012454 SOURCE CODE: UR/0181/66/008/004/1008/1012 AUTHORS: Tavger, B. A. Kogan, V. G.; ORG: Gor'kiy State University im. N. I. Lobachevskiy (Gor'kovskiy gosudarstvennyy universitet) Superconductivity in thin nondegenerate semiconductor films TITLE: SOURCE: Fizika tverdogo tela, v. 8, no. 4, 1966, 1008-1012 TOPIC TAGS: superconductivity, semiconducting film, semiconductor carrier, semiconductor band structure, carrier density, critical temperature. ABSTRACT: This is a continuation of earlier work by one of the authors (Tavger, with V. Ya. Demikhovskiy ZhETF v. 48, 748, 1965), where it was shown that conditions for realization of superconductivity in semiconductors can be improved by preparing the sample in the form of a thin film. The present article considers the superconductivity of a manyvalley semiconductor film. By using a model in which the electron states lie in a two-dimensional Brillouin zone and the phonon spectrum is the same as for a bulky sample, the authors investigate the dependence of the appearance of superconductivity on the thickness of the film, on Card 1/2

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CONTRACTOR OF A CONTRACTOR OF A

1 29298-66 AP6012454 ACC NRI the carrier density, and on the depths of the impurity levels. 'The results show that the superconductivity region has two critical limiting temperatures, and that there is no superconductivity from zero temperature to the lower critical temperature. This means that in this temperature interval the electron attraction does not lead to Cooper pairing. The critical temperatures depend strongly on the difference between the depth of the donor levels and the energy gap. When this difference is zero, the lower critical temperature vanishes. With decreasing thickness, the lower critical temperature increases and the higher critical temperature decreases. The authors thank <u>V. L. Bonch-Bruyevich</u> for valuable remarks, <u>B. T. Geylikman</u>, and <u>V. Z. Kresin</u> for useful dis-cussions, and <u>V. Ya. Demikhovskiy</u> for continuous interest in the work and a fruitful discussion. Orig. art. has: 1 figure and 14 formulas. SUB CODE: 20/ SUBM DATE: 23Ju165/ ORIG REF: 006/ OTH REF: 002 Card

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KODAN, V.G., insh. Inorease the stability of cement shaft linings of Krivoy Rog-Basin minas. Shakht. strol. 9 no.2:19-20 F '65; (MIRA18:4) 1. Krivoroshskiy fillal Vsesoyusnogo nauohno-issledovatel'skogo instituta organisatsii i mekhanizatsii shakhtnogo stroitel'stva.

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KOGAN V. !1(7) PHASE I BOOK EXPLOITATION SOV/1242 Akademiya nauk SSSR. Institut atomnoy energii Fizika plazmy i problema upravlyayemkh termoyadernykh reaktsiy, t. II. (Plasma Physics and the Problem of Controlled Thermonuclear Reactions, t. 2) [Moscow] Izd-vo AN SSSR, 1958. 355 p. 3,000 copies printed. Resp. Ed. :: Leontovich, M.A., Academician, PURPOSE: This collection contains previously unpublished work of members of the Institut atomnoy energii (Institute of Atomic Energy) of the Academy of Sciences of the USSR. It is intended for scientists interested in this field. COVERAGE: This book is the second of four volumes of previously unpublished work of members of the Institute of Atomic Energy during the period 1951-58. The exploitation cards on the other volumes in this series have been released under the numbers 1241,1243, and 1244. Card 1 

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Flasma Physics and the Problem (Cont.) SOV/1242	
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KOGAN, VI.	
21(7) PHASE I BOOK EXPLOITATION SOV/1243	
Akademiya nauk SSSR. Institut atomnoy energii	
Fizika plasmy i problems upravlyayemyth termoyadernyth reaktsiy, t. III. (Plasma Physics and the Problem of Controlled Thermonuclear Reactions, v. 3) [Moscow] Izd-vo AN SSSR, 1958 362 p. 3,000 copies printed.	
Resp. Ed.: Leontovich, M.A., Academician.	
PURPOSE: This collection contains previously unpublished work of members of the Institut atomnoy energii (Institute of Atomic Energy) of the Academy of Sciences of the USSR. It is intended for scientists interested in this field.	
COVERAGE: This book is the third of four volumes of previously unpublished work of the members of the Institute of Atomic Energy during the period 1951-58. The exploitation cards on the other volumes in this series have been released under the numbers 1241, 1242, and 1244.	
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Plasma : Physics and the Problem (Cont,)	
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BABIKOV, V. V. and KOGAN, V. I.		
"Radiant Heat Losses of a Dense High Temperature Plasma." (Work carried 1955); pp. 86-98.	out in	
"The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." 1958, published by Inst. Atomic Energy, Acad. Sci. USSR. resp. ed. M. A. Leontovich, editorial work V. I. Kogan.	Vol. IIÏ,	
Available in Library.		

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KOGAN, V. I. "Recombination Radiation of Hydrogen Plasma." (Work carried out in 1956); pp. 99-103. "The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. III. 1958, published by Inst. Atomic Energy, Acad. Sci. USSR. resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

,这些学者是我们的考虑是是我们的教育和,他们的社会的教育和问题,这个社会的""。这个学校学习这个问题,这种人们的外国的是,这次我们的中心,我们在这些教育的是是他们就是这些教育的人们都是我们就是这些教育

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		uclear Reactions."				
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"The Widening of S out in 1956-57); pp. 258	Spectral Lines in a High Temperature PL 3-304.	Asma." (Work carri	led
"The Physics of Plas 1958, published by I resp. ed. M. A. Leontovi	mas; Problems of Controlled Thermonucle nst. Atomic Energy, Acad. Sci. USSR. .ch, editorial work V. I. Kogan.	ear Reactions. ? Vo	<b>1. IV.</b>
anda Alika (n. 1997). 1995 - Angeland Maria, angeland 1997 - Angeland Maria, angeland			
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·	KOGAN, U.I.	
AUTHOR :	Kogan, V. I. 89-2-11/35	
TITLE:	Electron Temperature and the Degree of Ionization in the First Stage of a Powerful Pulsed Discharge (Elektronnaya temperature i stepen' io- nizatsii v nachal'noy stadii moshchnogo impul'snogo razryada).	
PERIODICAL:	Atomnaya Energiya, 1958, Mr 2, pp. 178-180 (USSR).	
ABSTRACT: Card 1/2	For hydrogen the magnitudes mentioned in the title are represented by means of formulae, ionization taking place by a kind of electron mee- chanism. If the discharge takes place in the course of some us at from $\sim 0.05$ to 2mm tory hydrogen has, in this special case, not the time to change over to any stable state. Therefore the thermodynamic description is no longer applicable to the connection between electron temperature and degree of ionization. As a basis for the description of the relations the author assumed that the velocity of ionization (n) is about proportional to the num- ber of photons $(n */2)$ emitted per second. Furthermore, the number of ionization acts (f) is calculated by means of a "Mean" Falmer quantum as a function of electron energy $\xi$ . The following magnitudes are then calculated if there is a Maxwell distri- bution of electron velocities at the temperature $T_{\phi}$ :	
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÷	a) The intensity of ionization $\Psi = \langle v \mathcal{C}_{z} \rangle$	
	b) The total intensity of Palmer lines $T_{\mathfrak{S}}$	
	These two values are shown in form of a table tog	ether with { for
	$T_e = 0$ to 300 eV. There are 2 tables, and 6 references, 2 of which	are Slavic.
UBMITTED:	November 11, 1957.	
VAILABLE:	Library of Congress.	
ard 2/2	1. Electrons-Ionizing effects 2. Hydrogen-Ioniz 3. Gas discharges-Properties	ation

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	KOSAN, V.I.
AUTHORS:	Borzunov, N. A., Kogen, V. I., Orlinskiy, D. V. 89-2-12/35
î ITL≣‡	Estimation of Electron Temperature and the Degree of Ionization in the First Stage of a Powerful Pulsed Discharge (Otsenka elektronnoy temperatury i stepeni ionizateli v nachal noy stadii moshchnogo im- pul'snogo razryada).
PERIODICAL	Atomnaya Energiya, 1958, , Nr 2, pp. 180-183 (USSR).
ABSTRACT: Card 1/2	In a glass tube of a diameter of 18,5 cm and a distance between the electrodes of 97 cm the discharge takes place. As source of current a charged condenser battery of 35 µF was used. In all experiments the current in the maximum of the first half period attained about 250 kÅ. As apparatus for the registration of the radiation of discharge a CS= 0-vacuum photo-tube was used which had an integral sensitivity of 40 µA/Lumen. The distance between the cell and the discharge tube was 3300 mm, of the discharge tube only 20 cm being eyposed. The signals from the photo-tube were directed to the deffector plate of a two beam oscillograph. With hydrogen pressure values of 0,3, 0,5, 1,0 and 2,0 mm Hg (initial pressure) the corresponding oscillograms were made. The experimental data - measured intensity of radiation in the visible part of the spectrum-express the following: a) With a given initial pressure $T_{e}$ changes only little within a long

	interval, that is to say, within the ran is to be expected in the current curve. b) With increasing initial pressure $T_{e}$	
	at 0,1 mm Hg and a value of about 2,5 ev c) The degree of ionization averaged we cross-section amounts, as regards the se cents. There are 4 figures, 2 tables, and 3 S14	with respect to the gas_discharge salient point t <sub>oc</sub> , to some per=
Subrith	ED: September 11, 1957.	
AVAILLE	BLE: Library of Congress.	
Card 2/	<ul> <li>/2 1. Blectrons-Ionizing effects-Estimation</li> <li>S. Gas discharges-Properties</li> </ul>	n 2. Hydrogen-Ionisation

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• AUTHOR :	Kogan, V. I.	50V/48-22-6-19/28
TITLE:	On the Theory of the Broadening of Plasma (K teorii ushireniya spel	of Spectral Lines in the ktral'nykh liniy v plazme)
PERIODICAL:	Izvestiya Akademii nauk SSSR, Sen Vol. 22, Nr 6, pp. 714-717 (USSR)	riya fizicheskaya, 1958, )
ABSTRACT: Card 1/3	The theoretical results obtained of the broadening of spectral lin effect are derived, in which com the atom by an electric field, wh tion of a large number of moving into account. Only in such a sche ly to apply the ratio between the sion method for the purpose of ca width, which has hitherto been in of successive collisions of the a tion particles. This binary model is all the more under investigation the greater is action forces of the atoms and pe	hes as a result of the Stark nection the excitation of hich is due to the accumula- charged particles, is taken sme is it possible rigorous- e statistical and the colli- alculating the increase in hyestigated only on the basis atom with various perturba- e adequate to the phenomenon is the radius of the inter-

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	デデデデアは、大学になどのなどのである。またのでは、1990年の1990 1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990 1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990年の1990 1990年の19 1990年1990年1990年1990年1990年1990年1990年19	
On the Theory	SOV/48-22-6-19/28 of the Broadening of Spectral Lines in the Plasma	
	<pre>gested it is assumed that 1) not only the ions but also the electrons can be classical- ly described, 2) that the position of the charged particles is reciprocal- ly not correlated, 3) that the perturbing field is homogeneous throughout the entire extent of the atom, and 4) that the interaction of the field with respect to the atom is adiabatic. On the basis of these assumptions it follows that a Fourier- expansion of the perturbing equivalent oscillator. by which the shape is obtained for any Stark component in classically adiabatic approximation. There are 1 table and 10 references, 5 of which are Soviet.</pre>	
ASSOCIATION:	Moskovskiy inshenerno-fizicheskiy institut (Moscov <b>Physics and Engineering Institute</b> )	
Card 2/3		



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		20-118-5-16/59	Ĩ
	AUTHON:	Kogan, V. I.	
•	TITLE :	On the Theory of Spectral Line Broadening in a Plasma (K teorii ushireniya spektral'nykh liniy v plazme)	
	PERIODICAL:	Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 5, pp.907-910 (USSR)	
	ABSTRACT : Card 1/3	The present paper reports on the results of the theory of the broadening of spectral lines due to the Stark effect, the perturbation of the radiating atom by the electric field of a totality of a great number of moving charged particles being taken into consideration. Only such a system permits rigorously to investigate the relation between the statisti- cal theory and the collision theory. This binary model is the better adapted to phenomena, the greater the radius of the interaction forces of the atom and the particles. The following assumptions are madelin the here proposed theory; It is possible to describe ions as well as electrons in a classical manner. Their spatial distribution at a given mean	

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CIA-RDP86-00513R000723620003-8

20-118-5-16/59 On the Theory of Spectral Line Broadening in a Plasma density is random. The perturbing field is homogenous and it acts adiabatically on the atom. On these assumptions the wave train emitted by the perturbed equivalent oscillator is represented by a Fourier series. This then furnishes the form of any arbitrary Stark component in a classical adiabatic approximation. A formula is written down for theintensity distribution of the Stark components. An expression for the just mentioned intensity is written down, taking into consideration only the ions. This generalized statistical approximation supplements the usual correction for the thermal movement of the ions. Then the intensity distribution of the Stark component for the quasi-binary case is written down. In this case the totality of the ions moving within the framework of the adiabatic model essentially reduces to the static Stark splitting of the line by the mean field. The principal effect, that is to say, the splitting; can. also be determined immediately. The results found here speak in favor of the unfoundedness of the often made assertion that the broadening effect of electrons is small compared with the effect of ions in the linear Stark effect. The here found expression is - roughly speaking - the result of the Card 2/3superposition of two effects - the displacement caused by 

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	ions. In the quadratic Stark effect it is a into consideration the perturbing particles Finally the admissibility of the initially is examined. There are 12 references, 4 of	s of one type. given assumptions	
ASSOCIATION:	Moskovskiy inshenerno-fizicheskiy institut (Moscow Institute for Engineering Physics )	) 	
PRESENTED:	December 4, 1957, by M. A. Leontovich, Memb Sciences, USSR	ber, Academy of	
SUBMITTED:	December 3, 1957		
Card 3/3			

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~ 21(7)		
AUTHOR:	Kogan, V. I	SOV/20-128-4-18/65
TITLE:	The Role of the Radiation of Admixt Balance of a Plasma Cord	ures in the Energy
PERIODICAL:	Doklady Akademii nauk SSSR, 1959, V pp 702-705 (USSR)	ol 128, Nr 4,
ABSTRACT ;	One of the possible energy losses of plasma is the radiation connected we admixturgs. This radiation prevents electron temperature and there are tion: the bremsstrahlung (free-free tion radiation (free - bound transit (bound - bound transitions). At low radiation is preponderant. Under con this case of a rarefied plasma the the effective rate of ionization Z	ith the existence of the increase of the three types of this radia- transitions), recombina- tions), and Eine-radiation temperatures the line nditions prevailing in temperature dependence of
Card 1/4	is obviously not determined by the s paper uses the results of the import (Ref 2) to estimate the role of the in the energy balance of a concrete	Saha formula. The present tant work by G. Knorr admixtures' radiation

### CIA-RDP86-00513R000723620003-8

The Role of the Radiation of Admixtures in the Energy SOV/20-128-4-18/65 Balance of a Plasma Cord

> in this case a cord which is heated by the magnetic field of the current passing through it and by the joulean heat. The author first discusses the role of a quantitatively small admixture in the energy balance of the plasma cord. The temperature of the ions and of the electrons is assumed to be identical. The energy balance equations are written down and explained. In contrast to its separate components the summary intensity of the admixtures' radiation varies only very little within the temperature interval investigated. There is a table with the values of different quantities appearing in the above-mentioned equations. When the admixture content is above 0.01 to 0.1%, the admixtures have the main role in the radiation of the plasma. The natural measure of the role of the admixtures in the energy balance is the ratio of the emitted energy to the Ohmic heat.  $Q_{radiation}/Q_{Joule} = N''/N''$  critical is valid, whereby N''= i.e. the number of atoms of admixture per unit length of the cord. An expression for the "critical" number of admixtureatoms per unit length is written down; a denotes the radius of the filament. In a given admixture, N<sup>#</sup> crit is of constant

Card 2/4

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### CIA-RDP86-00513R000723620003-8

The Role of the Radiation of Admixtures in the Energy Balance of a Plasma Cord SOY/20-128-4-18/65

order of magnitude in the entire temperature interval examined. The part of energy carried off by radiation of the admixtures depends under the present conditions on the absolute number of admixture particles in the cross section of the cord. The hitherto existing deliberations are then generalized to the case that the contribution of the admixtures in the cord is not small. This case can be realized only in a stationary cord when there is a low number of hydrogen ions in the cross section. Finally the author gives several conclusions; main conditions for the usability of the results of the present paper are (in addition to the previously described assumption) a sufficient rarefaction of the plasma and a sufficiently long discharge period. The upper limit of the density is given by the postulation that the excited ion in the admixture has to be able to extinguish by the time of the next electron impulse. The author expresses acknowledgements to L. A. Artsimovich, M. A. Leontovich, and S. I. Braginskiy for discussing the present paper. There are 1 table and 5 references, 3 of which are Soviet.

Card 3/4

APPROVED FOR RELEASE: 09/18/2001

THE SHORE

		87401		
	9.9845 26.1410 AUTHOR:	S/020/60/135/006/016/037 B019/B056 Kogan, V. I.		
	TITLE:	The Fluctuating Microfield and Multiple Collisions in a Gas of Charged (or Gravitating) Particles		
	PERIODICAL:	Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 6, pp. 1374 - 1377		
	TEXT: The present paper was read at the Second Conference on Magneto- hydrodynamics held in Riga in June 1960. Various characteristics of the multiple scattering of charged particles in a gas, which are usually cal- culated according to the scheme of pair collisions, contain integrals that diverge logarithmically for large distances $q$ . In the introduction, papers are discussed, in which $q_{max}$ was investigated. The part played by fluctuations of the microfield in the determination of $q_{max}$ has hitherto			
	found little have been com	attention, and where it has been taken into account, errors mmitted. The scattering of a particle in a gas is investi- Proceeding from the square of the transverse increment of		
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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723620003-8 87401 The Fluctuating Microfield and Multiple S/020/60/135/006/016/037 B019/B056 Collisions in a Gas of Charged (or Gravitating) Particles the momentum of this particle:  $(\Delta \vec{p}_1)^2 = 2q_0^2 \int d\tau \int \vec{E}_1(t)\vec{E}_1(t+\tau)dt$ , an expression is obtained for the correlation coefficient  $\langle \vec{E}_{\perp}(t)\vec{E}_{\perp}(t+\tau)\rangle$ , which depends only on t, with the help of which the square of the transverse increment of the particle momentum:  $\langle (\Delta \vec{p}_{\perp})^2 \rangle = 8\pi n (q_0^2 q_1^2 / v_0) \left\{ \pi^{-1/2} (v_1 / v_0) \exp(-v_0^2 / v_1^2) \right\}$ +  $(1-v_1^2/2v_0^2) \operatorname{erf}(v_0/v_1) \Delta \operatorname{tln}(\Delta t/\tau_{\min})$  (9) is obtained. As follows from a discussion of this result, consideration of the effect of gas particles upon the test particle does not affect the "binary" character of the scattering formula. In other words, many collisions "imitate" the pair collisions, on the average. The part of the maximum length in (9) is played by the quantity v  $\Delta t$ . As follows from a discussion of (9), this expression may formally be applied in the range  $\tau_{\min} \ll \tau_{g0}$  for a Card 2/3

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AUTHORS: Arlfov, U. A.; Kogan, V. I.; Khalikov, A. Kh. 49,55	<b>S</b>
TITLE: Registration of secondary-electron current with a scintillat	ion
counter (by the method of measuring the total current)	
SOURCE: AN UZSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 3, 1965, 29-31	
TOPIC TAGS: secondary electron emission, scintillation counter, measuring apparatus	
ABSTRACT: A method previously investigated by the authors (Izv. AN UzSSR, seriya fizmat. nauk, 1965, no. 2, 16) for the <u>measure-</u>	
ment of secondary-emission current (Wby counting the current pulses	-
produced at the output of a photomultiplier when the secondary elec- trons strike a scintillator, is improved in the present investiga-	
tion by using an oscilloscope to decord the total current from the	
photomultiplier output and by bombarding the target with a modulated	
primary ion beam. The equipment and the experimental procedure are	L
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described in	detail. Alth	ough the results are	still tentative	, it 18
	1 11	utty of the method (	un to 1 x 10 👕	amperes
is higher th	han that of all	erectione very and the	o a strong light	t back-
around A	shortcoming or	CUG MACHOO IR the ne	sed for a meen w	acuum
(on the orde	er of 10 <sup>-r)</sup> mm H	g). Orig. art. has	1 figure.	
		icheskiy institut A		techni-
cal Institu	te, AN UZSSR)			
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L 20372-66 EPF(n)-2/EWA(h)/EWT(1)/EWC(f)/EWG(m) IJP(c) AT ACC NR. AP5026977 SOURCE CODE: UR/0020/65/164/005/1008/1011 AUTHOR: Abramov, V. A.; Kogan, V. I. ORG: none 44 TITLE: Study of a finite volume of nonequilibrium plasma SOURCE: AN SESR. Doklady, v. 164, no. 5, 1965, 1008-1011 TOPIC TAGS: inhomogeneous plasma, plasma radiation, spectral energy distribution ABSTRACT: The authors show that when determining the losses to radiation from a finite volume of a plasma, with simultaneous allowance for the nonequilibrium popula- rigorous approach such as used by R. Post (Symposium of Plasma Dynamics (Clauser, ed.) 1960, p. 30), and that it is sufficient to Getermine the integral flux of the out- going quanta, for which simple and convenient formal solutions can be obtained. This of the number of quanta emitted on the dimensious of the radiation proportional to the volume of the plasma and the radiation grouped for both radiation proportional to the volume of the plasma and the radiation proportional to the surface area. Limiting formulas are presented for three types of radiation coming	
uniformly from the entire volume, surface (Planck) radiation, and instantaneous volume radiation. The approximate ranges of the parameters of the three types of radiation are indicated. This report was presented by Academician M. A. Leontovich. (rig. art.	-
SUB CODE: 20/ SUBM DATE: 08Feb65/ ORIO REF: 003/ OTH REF: 006   Card 1/1 C UDC: 535.2 2	

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•••	ACC NR. APG034752 SOUTICE CODE: UR/0020/66/170/005/1044/1047	<b>1</b>	
	AUTHOR: Vasil'yev, A. P.; Kogan, V. I.		
	ORG: none		
	TITLE: Contribution to the theory of radiation transport in plasma		
	SOURCE: AN SSSR. Doklady, v. 170, no. 5, 1966, 1044-1047		
	TOPIC TAGS: transport equation, radiation energy, integral equation, approximation method, plasma radiation		
	ABSTRACT: The authors discuss difficulties involved in solving the radiation-transport equation, connected primarily with the fact that the kernel of the integral equation for the transport of resonant radiation does not decrease sufficiently rapidly with distance, making this equation irreducible to a differential form. Physically this makes the radiation-transport equations different from diffusion equations and impos-		
	case, and that the total frequency redistribution. It is shown that this is not always the act does not by itself lead to the non-diffuse nature of the radiation-transport pro- cess. The analysis is carried out for ionization equilibrium between an impurity in a plasma of finite dimensions, using a simple model of a hydrogen-like atoms whose		
	plete redistribution of the frequencies during the re-radiation act. The causes of		
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1.	6034800 (M) SOURCE CODE: UR/0398/66/000/008/A016/A010	
AUTHOR:	Kogan, V. I.	
	thin stub wing in a unbounded flow	
SOURCE:	Ref. zh. Vodnyy transport, Abs. 8A94	
REF SOUR	CE: Tr. Leningr. in-ta vodn. transp. 100 01 1000	
TOPIC TA( characterie	GS: thin wing, stub wing, ship, vortex, flow analysis, flow	
ABSTRACT on the linea wing. Such shallow wat thin rectang screen. The to that of the system of bo	: An attempt is made to evaluate the effect of the boundedness is r part of a transverse hydrodynamic force and its moment for a a problem can be encountered when studying a ship's stability is ers. F is taken as $\langle 0.2$ . A simulated ship hull is considered as a substant of the wing and the free surface of the water is considered as a se flow around an infinite grid of stubs. The wing is replaced by bund vortices. Two cases are examined: a circulation is of compared to the study of the study o	a stub in l as a colid
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ard 1/2	UDC: 629.12:532	

11-17. TAM BENTRARBARKAR MARATAN, REPARTRARBARKAR MARATAN DE CONTRACTA (SARATAN) (SARATAN)

KOJAN, V. Kh.

Kogan, V. Kh. "On the problem of foreign substances in the heart," Sbornik nauch. rabot evakogospitaley i Kafedry obshchey chirurgii (Irkut. ob. otd. zdravookhraneniya. Irkut. gos. med. in-t), (Irkutsk), 1948, p. 20-29

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

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#### CIA-RDP86-00513R000723620003-8

S/263/62/000/011/022/022 I007/I207

AUTHOR: Kogan, V. Kh. and Semikolennykh, A. N.

TITLE: Device for the graphical recording of y-rays

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 32. Izmeritel'naya tekhnika, no. 11, 1962, 64, abstract 32.11.469. "Med. radiologiya", v. 6, no. 12, 1961, 56-58

TEXT: Brief description is given of a device for  $\gamma$ -topography designed in the radiological faculty of the Yaroslavskiy meditsinskiy institut (Yaroslavl Medical Institute); the device represents a scintillation-sensing element electrically connected with a E-2 (B-2) type unit and mechanically, with a scanner. A photomultiplier of the  $\Theta \Im Y$  19-M (FEU 19-M) type is also included in the circuit. The sensing element has a lead shielding and a conical-channel collimator. A thin lead filter for scattered radiation was mounted in front of the scintillation sensing crystal. Each pulse from the scintillation-sensing element, transmitted through a scaler to an electromagnet is recorded on paper tape by strokes of the magnetic armature on carbon paper. The device described, has been used for X-ray records of a thyroid gland, after the patient received a radiation dose of 25 to 50 microcuries of 1<sup>131</sup>. There are 3 figures.

[Abstracter's note: Complete translation.]

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#### CIA-RDP86-00513R000723620003-8

(MIRA 9:8)

ARBATSKAYA, Yu.D.; KOGAH, Y.M.; PETROV, D.I.; PIS'MENNYY, R.Ya.; CHUIKOVA, M.S. Studying patients in the first stage of hypertension with an initial. cerebral syndrome in connection with their working conditions. Zhur. nevr. 1 psikh. 56 no.6:472-477 156.

1. Kafedra vrachebno-trudovoy ekspertisy (sav. prof. N.K. Bogolepov) TSentral'nogo instituta usovershenstvovaniya vrachey i TSentral'nyy institut ekspertizy trudosposobnosti 1 trudovogo ustroystva invalidov (dir. - prof. O. I. Sokol'nikov), Moskva.

(HYPERTENSION, compl.

funct. disord. of brain in blegraphers, determ. of clin. manifest.) (BRAIN, dis.

funct. disord. in telegraphers with hypertension, determ. of clin. manifest.) (OCCUPATIONAL DISMASHS cerebral funct. disord. in telegraphers with

CALENCE FOR SUCCESSION

hypertension, determ of clin. manifest.)

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APPROVED FOR RELEASE: 09/18/2001

6 (7) AUTHOR:	Kogan, V. S., Senior Engineer	SOV/111-59-4-12/25
TITLE:	The Experience of the Moscow Automatic Exchange With Fully Automatic System ( Moskovskoy stantsii ATA po polnoavtomat	Opyt raboty
PERIODICAL:	Vestnik svyazi, 1959, Nr 4, pp 14 - 16	(USSR)
ABSTRACT: Card 1/2	All Moscow telegraph subscribers may es matic connections, if the equipment of in other towns is connected to an autom graph exchange. An automatic metering TsNIIS performs the tariff classificati subscribers must be well acquainted wit with the different equipment, since the subscriber telegraph network are built ent systems. Instructors of the Moscow subscribers to distinguish the differen of automatic responders reduces the ef automatic system, but recently Soviet i production of AST-2 automatic responder apparatus which may also be used on the	their correspondents natic subscriber tele- device developed by on. The calling the signals used exchange of the according to differ- exchange train the signals. The lack ficiency of the ndustry began the s for the ST-35