

Modern Methods of Obtaining Fuel from Petroleum (Cont.)

275

catalytic cracking with pellet (bead) or powdered catalysts; the treatment of petroleum residue to increase the yield of light petroleum product separation -- coking in units which are not externally heated, and coking with granulated coke. Flow sheets and the principal characteristics of these processes, along with flow sheets of modern plants which process sulfurous crudes, are given. There are 90 references of which 35 are Soviet, 48 English, 7 German.

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May 26, 1958

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PHASE I BOOK EXPLOITATION 987

Povysheniye kachestva i primeneniye smazochnykh materialov; sbornik dokladov (Improvement in the Quality and Use of Lubricants; Collection of Papers) Moscow, Gostoptekhizdat, 1957. 368 p. 8,000 copies printed.

Gen. Eds.: Lozbyakova, Ye.S.; Tech. Ed.: Mukhina, E.A.; Ed.: Losikov, B.V., Kreyn, S.E., Professors; Fuks, G.I., Candidate of Chemical Sciences

Sponsoring Agency: Moskovskiy dom nauchno-tekhnicheskoy propagandy imeni F.E.Dzerzhinskogo, Obshchestvo po rasprostraneniyu politicheskikh nauchnykh znaniy RSFSR.

PURPOSE: This book is written for engineers and technicians in agriculture, transportation, scientific research establishments, and higher schools engaged in selecting and using lubricants.

Card 1/6

Improvement in the Quality and Use of Lubricants (Cont.) 987

COVERAGE: The present collection reviews the physico-chemical and operational properties of industrial, motor tractor, and machine oils and consistent lubricants. The results of operational tests of application suitability are given. Several reports deal with the use of additives and other methods for improving the quality of lubricants.

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SOURCES: EEAL LC Vol. 5, No. 10, Oct. 1956

Lozek, Vojen

Category: Czechoslovakia/General Division. Conservation of Nature. A-5

Abs Jour: Referat. Zh.-Biol., No 9, 10 May 1957, 34970

Author : Lozek, Vojen

Inst : not given

Title : A Few Observations About the Natural Preserve at Tobiasuv Height

Orig Pub: Ochrana prirody, 1956, 11, No 4, 119

Abstract: In the Loun uplands near the settlement of Kozla (Western Czechoslovakia a natural reservation has been organized on Tobiasuv Height where the steepe flora and fauna of the Czech uplands have been well preserved. Particularly characteristic among the plants are the feathergrasses, Pulsatilla patens, Adonis vernalis, and others. On Tobiasuv Height, many small molluscs dwell and are represented more fully than on other heights of the Loun uplands (Helicella striata, H. candicans, Chondrula tridens, Vallonia costata, Vertigo pygmaea, Euomphalia strigella). On the preserve the Carpatho-Balkan type of mollusk of steppe origin, Vitrea inopinata, is also met with. (Further to the west it is not found at

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Category: Czechoslovakia/General Division. Conservation of Nature. A-5

Abs Jour: Referat. Zh.-Biol., No 9, 10 May 1957, 34970

all), earlier unknown in the Loun uplands. The abundance of steppe types of plants and mollusks is connected with the fact that the soil is rich in CaCO_3 .

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Vol. 10, no. 2, 1959

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Uncl.

~~SECRET~~, ~~Wojen~~

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Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: Central Geological Institute Ustredni ustav geologicky , Prague.

Source: Prague, Vestnik Ustredniho Ustavu Geologickeho, Vol XXXVI, No 5, June 1961, pp 365-368.

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CZECHOSLOVAKIA

SMOLIKOVA, L; LOZEK, V.

1. Chair of Geology of the Natural Sciences Faculty of Charles University (Katedra geologie Prirodovedecke fakulty Karlovy university), Prague; 2. Central Geological Institute (Ustredni ustav geologicky), Prague (for both)

Prague, Casopis pro mineralogii a geologii, no 2, 1963,
pp 189-196

"Interglacial and Find of a Pleistocene Man from Svitavka."

LOZEK, Vojan

Interglacials in Slovakia and their importance for the
stratigraphy of the Quaternary. Geol práce 64:77-92 '63.

LOZEK, Vojen

Meeting of the Subcommission on Ice Age Stratigraphy of the
International Association on Quaternary Research in Czechoslovakia.
Vest. Ust. geol. 39 no. 3:233-237 My '64.

LOZEK, Vojen

"Fauna of the Iron Age" by V. Toepfer. Reviewed by Vojen
Lczek. Cas min geol 9 no.3:376 '64.

LOZENKO, A. K.

Kokilove a odstredive odlevani. (Z ruskeho originalu) prel. Adolf Vacin. (Vyd. 1.) Praha, Prumyslove vydavatelstvi, 1951. 55p. (Kniznice hutnickeho prumyslu, sv. 15) (Chill casting and centrifugal casting. Tr. from the Russian. 1st ed. illus., table)

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 12
December 1956

LOZHENKO, M.F.
MEL'TSER, I.A.; KURAMSHIN, Yu.N.; ~~LOZHENKO, M.F.~~

Results of growing yeast in fermenting vessels equipped with stationary and rotary air distributing systems. Khleb.i kond. prom. 1 no.7:22-24 J1 '57. (MIRA 10:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khlebopekarnoy promyshlennosti.

(Yeast) (Bakers and bakeries--Equipment and supplies)

MEL'TSER, I.A.; KURAMSHIN, Yu.N.; Primali uchastiye: LOZENKO, M.F.;
CHULINA, Ye.P.; BELOVA, L.D.

New types of foam fire extinguishers for yeast plants. Trudy
TSNIIKHP no.8:169-172 '60. (MIRA 15:8)
(Fire extinction--Chemical systems)

MEL'TSER, I.A.; LOZENKO, M.F.; CHULINA, Ye.P.; BELOVA, L.D.

Searching for more effective methods of anticorrosion coating
of yeast growing apparatus. Trudy TSNIKHP no.8:172-174 '60.
(MIRA 15:8)
(Protective coatings) (Fermentation--Apparatus and supplies)

LOZENKO, V.

Let's use the soil in a right way. Nauka i zhyttia 11 no.2:42-43
F '62. (MIRA 15:3)

1. Predsedatel' kolkhoza imeni V.I.Lenina Borodyanskogo rayona
Kiyevskoy oblasti. (Borodyanka District--Agriculture)

LOZENKO, V.T.; GOLOMBA, R.A., nauchnyy sotrudnik; OS'MAK N.K., nauchnyy sotrudnik; RYBAK, V.H., nauchnyy sotrudnik

Development of communal economy and agricultural standards on the Lenin Collective Farm. Zemledelia 8 no.1:19-25 Ja 60.
(MIRA 13:4)

1. Predsedatel' kolkhosa imeni Lenina, Borodyanskogo rayona, kiyevskoy oblasti (for Lozenko). 2. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya (for Golomba, Os'mak, Rybak).

(Borodyanka District--Collective farms)

LOZENKO, V.T.; SAMBUR, G.N., kand.sel'skokhoz.nauk

Role of soil investigations in raising the standards of agriculture
on the Lenin Collective Farm. Zemledelie 8 no.7:26-34 JI '60.

(MIRA 13:9)

1. Predsedatel' kolkhoza imeni Lenina (for Lozenko). 2. Ukrainskiy
nauchno-issledovatel'skiy institut zemledeliya.
(Borodyanka District--Agriculture)

CHILOV, K.; LOZENOV, S.

Weltmann's blood proteins coagulation and its clinical application.
Izv.Inst.sots.med., Sofia Vol.2:224-274 1950. (GLML 20:6)

1. Prof.K.Chilov, Corresponding Member of the Bulgarian Academy of Sciences and Director of the First Internal Clinic of the Medical Academy. 2. Dr. Stefan Lozenov.

TASHEV, T. A., prof.; LOZENOV, St.; GOSPODINOVA, V.

Water metabolism in Basedow's disease. Nauch. tr. ISUL, Sofia 2 no.
1:179-209 1953.

1. Fakultetska terapevtichna klinika pri med. akademiia v
chervenkov - Sofia Direktor: prof. K. Chilov.

(WATER, metabolism,
in hyperthyroidism.)

(HYPERTHYROIDISM, metabolism in,
water.)

LOZENOV, St.

Nephelometric method for determination of the proteins in the serum,
urine and other biological fluids. Suvrem med., Sofia no.6:77-79 '60.

(EXUDATES AND TRANSUDATES chem.)

(BLCOD PROTEINS chem.)

(URINE chem.)

S/169/63/000/001/058/062
D263/D307

AUTHORS: Lozenski, I., Pishchalov, St. and Doborev, T.

TITLE: Utilization of the electromagnetic field of radio-
waves for the resolution of one geological problem

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 1, 1963, 31,
abstract 1D170 (Minno delo i metalurgiya, 1962,
v. 17, no. 3, 38-43 (Bulg.))

TEXT: It was found that by measuring the magnetic compon-
ents H_p and H_z of a radiowave field, beamed from an airplane, it is
possible to detect the contacts of several rocks which differ not
only in their electric resistance but also in their magnetic and
dielectric permeabilities. The radiowave method is used for the
geological mapping of various underlying rocks in covered platform
regions of northern Bulgaria, where the thickness of Quaternary
deposits does not exceed 15-25 m.
[Abstracter's note: Complete translation]

Card 1/1

DOBREV, T., k.t.n. inzh.; LOZENSKI, I., inzh.; PISHTALOV, St., inzh.

Use of the radio wave electromagnetic field in solving some
geologic problems. Godishnik Min geol inst 8:431-446 '61-'62
[publ. '63].

LOZENSKI, Ivo, inzh.

Circuits with combined correction. Radio i televiziia ll no.8:235-
237 '62.

L(ZENSKI, Ivo Dr., st. as. inzh.

Study of a combined correction in video amplifiers. Godishnik Min
geol inst 9:79-89 '62-'63[publ. '64].

SHAPIRO, Izrail' L'vovich; LOZENTSVAK, David Leont'yevich;
VOROB'YEV, Vasilii Alekseyevich; MAYSKAYA, N.I., red.;
FYATAKOVA, N.D., tekhn. red.

["Robotron" R-12 and its joint operation with "Askot"
accounting machines] Robotron R-12 i ego rabota sovместno
s bukhgalterskimi mashinami Askota. Moskva, Gosstatizdat,
1963. 139 p. (MIRA 17:2)

22

CA

On thief. P. M. Lozachev. U.S.S.R. 67,078, Feb. 24, 1947. M. H.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

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LOZGACHEV, P. M.

"Development of Techniques for Distilling Petroleum and Fuel Oil in the USSR."
Cand Tech Sci, Acad of Petroleum Industry, Min Petroleum Industry USSR, Moscow,
1954. (KL, No 1, Jan 55)

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

[Faint, illegible text, possibly a signature or header]

LOZGAVHEV, Pavel Mikhaylovich; SERGIYENKO, S.P., professor, redaktor;
KUZIN, N.V., vedushchiy redaktor; MUKHINA, E.A., tekhnicheskii
redaktor.

[Development of the Soviet technology of distilling petroleum
and mazut] Razvitie otechestvennoi tekhniki peregonki nefi
i mazuta. Moskva, Gos.nauchno-tekhn.izd-vo nefi i gorno-
toplivnoi lit-ry, 1957. 166 p. (MIRA 10:6)
(Petroleum--Refining)

EC 2012-11-11
GUREVICH, Ya.D.; SMIRNOV, A.S.; LIVSHITS, Z.I.; LOSEV, M.T.; BALANOVSKIY, S.A.;
UDYANSKIY, N.Ya.; MURAV'YEV, V.M.; AMIYAN, V.A.; LOZGACHEV, P.M.;
OFROSIMOV, V.S.; POPOV, S.S.; MATSKIN, L.A.; RATUSH, P.P.; PARFENOV,
Ye.I.; DUBROVINA, N.D., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Soviet petroleum industry] Neftianaya promyshlennost' SSSR.
Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry,
1958. 330 p. (MIRA 11:3)
(Petroleum industry)

LOZGACHEV, P.M., inzh.

Useful book ("D.I.Mendeleev and the Russian petroleum industry"
by V.E.Parkhomenko. Reviewed by P.M.Loizgachev). Khim. i tekhn.
topl. i massl 3 no.10:70-71 0 '58. (MIRA 11:11)
(Mendeleev, Dmitrii Ivanovich, 1834-1907) (Petroleum industry)

11(4)

AUTHORS: Vol'fkovich, S. I., Academician, SOV/30-58-12-45/46
Lozgachev, P. M., Candidate of Technical Sciences

TITLE: Mendeleyev and Russian Petroleum (Mendeleyev i russkoye
neftyanoye delo)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 12, pp 109-110 (USSR)

ABSTRACT: This is a review of the book written under the above title
by V. Ye. Parkhomenko; it was published by the publishing
house of the Academy of Sciences of the USSR in an edition
of 3000 copies. The book has 267 pages. Price: 18 Rubles.

Card 1/1

LOZGACHEV, P.M.

Problem of determining the molecular weights of petroleum
fractions. Izv. vys. ucheb. zav.; neft' i gaz 3 no.1:125-126
'60. (MIRA 14:10)

(Petroleum--Refining)

LOZGACHEV, P.M.

From the history of the origin of oil refining in Baku.
Izv. vys. ucheb. zav.; neft' i gaz 7 no.5:54,58 '64.

(MIRA 17:9)

LOZGACHEV, V. I.

Metal ← Isotope exchange method for measuring the velocity of evaporation and the coefficient of diffusion of solid metals. A. N. Nesmeyanov, N. F. Lebedev, V. I. Lozgachev, and B. G. Chudinov. *Conf. Acad. Sci. U.S.S.R. ON Peaceful Uses of Atomic Energy, Session Div. Tech. Sci.* 1955, 49-61 (Pub. 1956)(Engl. translation).--See C.A. 50, 748a.
D. M. R.

4

USSR/Chemistry-Physical chemistry

Card 1/1 Pub. 22 - 31/59

Authors : Nesmeyanov, An. N.; Lozgachev, V. I., and Lebedev, N. F.

Title : Isotopic exchange method for measuring the pressure of saturated vapor

Periodical : Dok. AN SSSR 102/2, 307-310, May 11, 1955

Abstract : The application of the isotopic exchange method for the measurement of saturated vapor pressures is discussed. The speed of the measuring process at a given temperature can be determined by the value of the specific activity of one of the samples placed in a closed vacuum vessel and upon rate of evaporation and diffusion, as well as the condensation coefficient. Numerous equations are given which make such determination possible. Two USSR references (1947).

Institution : Moscow State University im. M.V.Lomonsov

Presented by : Academician P. A. Rebinder, December 14, 1954

84452

S/057/60/030/009/018/021
B019/B054

9,1000 (1024, 1050, 1054)

AUTHOR: Lozgachev, V. I.

TITLE: Determination of Solid Angles

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 9,
pp. 1109-1114

TEXT: The author gives expression (1) for the solid angle formed by the lines starting from a point and lying against a circle that is located anywhere in the space. This expression satisfies all necessary conditions for all possible limiting cases, and the author discusses some limits of (1). He deals with some Maxwellian calculations of solid angles in which elliptic integrals were used. After discussing other previous papers on this problem, the author shows that expression (1) can be represented as a function of two variables

$$\omega(\alpha, x) = \frac{1}{2\pi\sqrt{1+(\alpha+x)^2}} \left[\left(1 + n \frac{\alpha+x}{2\alpha}\right) \Pi(n, k^2) + \left(1 + n' \frac{\alpha+x}{2\alpha}\right) \Pi(n', k^2) - 2K(k^2) \right]$$

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Determination of Solid Angles

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(7), where $n = -\frac{2\alpha}{\sqrt{1+\alpha^2} + \alpha}$, $n' = -\frac{n}{n+1}$, $k = \frac{4\alpha a}{1+(\alpha+x)^2}$, and he

indicates integral (8) for the integral solid angle from a source of radius r to a coaxial disk of radius R . From a discussion of (7) and (8) it follows that (7) can be used not only for point sources but also for calculating the integral solid angles for non-punctiform sources, and also for calculating the integral solid angles for sources of any form lying in a plane parallel to the target plane. The two variables in (7) are the target diameter and the distance between target and source. The calculations discussed here for sources of any form are approximate. M. M. Agrest et al. (Ref. 4), K. A. Petrzhak and M. A. Bak (Ref. 5) are mentioned. The author thanks V. M. Kurochkin, V. M. Belyakov, R. I. Kravtsova, and A. V. Kuz'mina, who were of great help in calculating (8). There are 2 figures, 1 table, and 6 references: 4 Soviet and 1 US.

Card 2/3

84452

Determination of Solid Angles

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B019/B054

ASSOCIATION: Vsesoyuznyy institut mineral'ogo syr'ya Moskva
(All-Union Institute of Mineral Raw Materials, Moscow)

SUBMITTED: April 21, 1958

Card 3/3

AUTHOR: Lozgachev, V. I.S/076/60/034/02/008/044
B010/B015TITLE: A Method of ¹⁹Isotopic Exchange for Measuring Saturated Vapor Pressure and Diffusion Coefficients. II. Solution of the Diffusion Equation in the Exchange

PERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol 34, Nr 2, pp 306-318 (USSR)

ABSTRACT: In a previous paper (Ref 1), an exchange equation was derived which only holds when $D = 0$ or $D = \infty$ ($D =$ diffusion coefficient). The present paper deals with the investigation of the very general case of isotopic exchange in two directions on a two-sample system. The exchange layers of the samples reacted with one another both via the gas phase and the deeper layers of the sample by self-diffusion. The samples are regarded as disks or rods (of a certain length l) and if the diffusion does not take place throughout the entire sample, as semi-infinite rods with isolated lateral face. The conditions prevailing on the sample surfaces s_1, s_2 lead to the conclusion that the symmetry of the exchange process on the sample surfaces is not disturbed by diffusion, and that it is even preserved in all deeper layers of the sample. On the assumption that a layer thickness δ takes directly part in the isotopic exchange (in the role of a miniature reservoir with a certain capacity),

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A Method of Isotopic Exchange for Measuring
Saturated Vapor Pressure and Diffusion Coefficients.
II. Solution of the Diffusion Equation in the Exchange

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the following equation is derived:

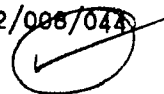
$$\delta \frac{\partial \alpha(0,t)}{\partial t} = h (U - \alpha(0,t)) + D \frac{\partial \alpha(0,t)}{\partial x} \quad (58) \quad (\alpha = \text{specific activity, } U = \alpha(0,\infty), h = \Omega(\alpha) \frac{n_0}{\bar{n}}, \Omega(\alpha) = \text{transition coef-}$$

ficient (Ref 1), n_0 = evaporation rate, \bar{n} = number of molecules per unit volume). For certain boundary conditions of a rod with isolated lateral faces, the specific activity of the substance in the surface with a distance x from the beginning of the rod at the instant t is represented by equation (31), as well as for the semi-infinite rod under certain conditions by equation (56). The equations derived may be applied to the isotopic exchange in one, as well as in two directions with any sample. Papers of A. V. Lykov and G. S. Karslou, and an equation of Efros, are mentioned. Finally, V. B. Glazko is thanked for his advice. There are 3 figures and 9 Soviet references.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya
Card 2/3 (All-Union Scientific Research Institute of Mineral Raw Materials)

A Method of Isotopic Exchange for Measuring
Saturated Vapor Pressure and Diffusion Coefficients.
II. Solution of the Diffusion Equation in the Exchange

S/076/60/034/02/008/044
B010/B015



SUBMITTED: April 18, 1958

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S/137/62/000/002/100/111
A060/A101

18.8100

AUTHOR: ~~Lozgachev, V. I.~~

TITLE: On the methods for measuring vapor pressures of high boiling-point substances

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 78, abstract 2I529 ("Izv. AN SSSR, Otd. tekhn. n.", 1961, no. 4, 31-38)

TEXT: Methods are considered for calculating and determining the virtual condensation coefficient z . For evaporator surfaces having a macroscopic-type roughness, in the case of powders, chips, etc, one has to consider the effective condensation coefficient q which is always greater than z . The relationship between q and the geometric parameters of the surface and z is found. An expression is given for the probability $\omega(\alpha)$ of the transfer of an evaporated particle from a given surface into vacuum, relating the condensation coefficient α to the geometric parameters of the evaporator and the enclosing vessel of arbitrary shape. On the basis of the function $\omega(\alpha)$ found, a method is proposed for measuring the condensation coefficient. A general formula is proposed for calculating the equilibrium pressure of vapor in measurements by the methods of

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Card 1/2

On the methods for measuring ...

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A060/A101

Knudsen and Langmuir, which are treated as equivalent. It is shown that the size and nature of the evaporator are of decisive importance in the methods of evaporation in vacuum, particularly at low α . A method is given for taking into account the geometric factors affecting the rate of evaporation in vacuum.

I. Nikitina

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B

[Abstracter's note: Complete translation]

Card 2/2

LOZGACHEV, V.I. (Moscow)

Isotope exchange method for determining saturated vapor pressure and diffusion coefficients. Part 3: Method for computing experimental data. Zhur.fiz.khim. 35 no.10:2199-2209 0 '61.

(MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Vapor pressure) (Diffusion)

39823
S/057/62/032/008/012/015
B104/B102

26.1420

AUTHOR: Lozgahev, V. I.

TITLE: Surface distribution of the molecular currents in vacuum evaporation

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 8, 1962, 1012 - 1022

TEXT: Distribution functions of the molecular current density (radiation) are compared for disk-shaped, rectangular, circular and segmental sources on parallel or perpendicular surfaces, based on Knudson's cosine

law $p = \frac{1}{2\pi} \int_{\theta_1}^{\theta_2} d\theta \int_{\psi_1(\theta)}^{\psi_2(\theta)} \sin 2\phi d\phi$. Here p is the incidence probability of a

molecule from the surface element $\Delta\sigma$ in the source situated on the surface in the solid angle which comprises the area S of the collector. The mean free path is assumed to be sufficiently large for collisions between the molecules to be negligible and for the condensation coefficient of the molecules at the collector to be unity. In the case of a disk-shaped

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Surface distribution of the...

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source the following expression is obtained for the incident molecule density on the surface element K_1 (Fig. 2a):

$$p = 1 - \frac{1}{2\pi} \int_0^{2\pi} \cos^2 \varphi_2(\theta) d\theta = 1 - \frac{1}{\pi} \left(\int_0^{\frac{\pi}{2}} \cos^2 \varphi_2(\theta) d\theta + \int_{\frac{\pi}{2}}^{\pi} \cos^2 \varphi_2(\theta) d\theta \right). \quad (3)$$

$$\cos^2 \varphi_2(\theta) = \left(\frac{h}{K_1 M'} \right)^2.$$

The integral molecular current is arrived at by integration over the circular area. In the same way expressions are derived for the integral molecular currents from the above-mentioned sources. It is shown that molecular radiation conforms to the reversibility and additivity theorems. There are 4 figures.

ASSOCIATION: Vsesoyuznyy institut mineral'nogo syr'ya Moskva (All-Union Institute of Mineral Raw Materials, Moscow)

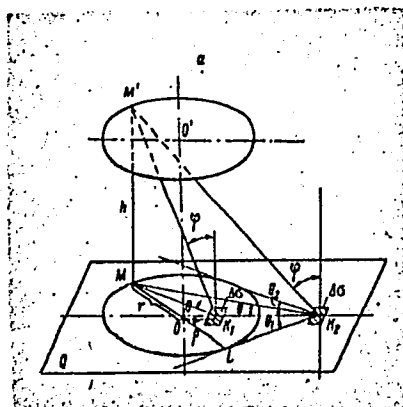
Card 2/3

Surface distribution of the...

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SUBMITTED: August 5, 1958 (initially)
June 9, 1961 (after revision)

Fig. 2a



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