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6-21-59

ADONIN, A.N., kand.tekhn.nauk; ALIVERDIZADE, K.S., kand.tekhn.nauk; AMIYAN, V.A., kand.tekhn.nauk; ANISIMOV, Ye.P., inzh.; APRESOV, K.A., dotsent; BELEN'KIY, V.N., inzh.; BOGDANOV, A.A., kand. tekhn.nauk; GORBENKO, L.A., inzh.; DANIELYAN, A.A., inzh.; DAKHNOV, V.N., prof.; IVANKOV, R.A., inzh.; KORNEYEV, M.I., inzh.; LAVRUSHKO, P.N., inzh.; LESIK, N.P., inzh.; LOVLYA, S.A., kand. tekhn.nauk; LOGINOV, B.G., kand.tekhn.nauk; MININZON, G.M., kand. tekhn.nauk; MOLCHANOV, G.V., kand.tekhn.nauk; MURAV'YEV, I.M., prof.; MUSHIN, A.Z., inzh.; OL'SHVANG, D.Ye., inzh.; PODGORNOV, M.I., inzh.; FAYERMAN, I.L., kand.tekhn.nauk; FOKINA, Ye.D., inzh.; EFISHEV, A.M., inzh. [deceased]; YERSHOV, P.R., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Reference book on petroleum production] Spravochnik po dobyche nefti. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vol.2. 1959. 589 p. (MIRA 13:2)
(Oil fields--Production methods)

KHEFFERAN, Khuan [Hefferan, Juan]; BRAVO, Oktavio [Bravo, Octavio]; BUKHANOS, Khuan [Bujanos, Juan D.]; OVCHINNIKOVA, M.A. [translator]; LATYSHOVA, M.G., kand.geol.-mineral.nauk, dotsent, red.; AL'PIN, L.M., prof., red.; DAKHNOV, V.N., prof., red.; DEMENT'YEVA, T.A., vedushchiy red.; GANINA, L.V., tekhn.red.

[Principles of geophysical well logging] Osnovy geofizicheskogo issledovaniia skvazhin. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 107 p. Translated from the Spanish. (Oil well logging) (MIRA 13:7)

YEROFEYEV, N.S.; KOZLOV, A.L.; SAVCHENKO, V.P.; YELIN, N.D.; ALEKSIN, A.G.; MAKSIMOV, S.P.; DAKHNOV, V.N.; SHMELEV, A.A.; KOZHUKHOV, V.A.; ANDRIANOV, N.I.; KOPOSOV, I.A.; YENIKEYEV, P.N.; KALANTAROV, A.P., vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Efficient method of prospecting for gas fields; studies of the temporary commission of the State Scientific and Technical Committee of the U.S.S.R.] Ratsional'naia metodika razvedki gazovykh mestorozhdenii; materialy vremennoi komissii GNTK SSSR. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 125 p. (MIRA 13:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy nauchno-tekhnicheskiy komitet.
(Gas, Natural) (Prospecting)

DAKHNOV, V.N.

ZHIGACH, K.F., prof., otv.red.; MURAV'YEV, I.M., prof., red.; TIKHOMIROV, A.A., kand.ekonom.nauk, red.; VINOGRADOV, V.N., kand.tekhn.nauk, red.; SIDORENKO, N.V., red.; BRENTS, A.D., red.; CHARYGIN, M.M., prof., red.; DUNAYEV, F.F., prof., red.; CHARNYY, I.A., prof., red.; CHERNOZHUKOV, N.I., prof., red.; KUZMAK, Ye.M., prof., red.; DAKHNOV, V.N., prof., red.; PANCHENKOV, G.M., prof., red.; NAMETKIN, N.S., prof., red.; TAGIYEV, E.I., prof., red.; BIRYUKOV, V.I., kand. tekhn.nauk, red.; YEGOROV, V.I., kand.tekhn.nauk, red.; ALMAZOV, N.A., dotsent, red.; GUREVICH, V.M., red.; ISAYEVA, V.V., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Development of the gas industry of the U.S.S.R.; from the proceedings of the Interuniversity Scientific Conference on the Problems of the Gas Industry] Mezhvuzovskaia nauchnaia konferentsiia po voprosam gazovoi promyshlennosti. Razvitie gazovoi promyshlennosti SSSR; materialy. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 405 p. (MIRA 13:11)

1. Mezhvuzovskaya nauchnaya konferentsiya po voprosam gazovoy promyshlennosti. 2. Glavgaz SSSR (for Brents). 3. Moskovskiy institut neftekhimicheskoi i gazovoi promyshlennosti im. akad.Gubkina (for Charygin, Charnyy).

(Gas industry)

DAKHNOV, V.N.; DOBRYNIN, V.M.

Determining the specific surface and permeability of sandy reservoir strata from data obtained by the induced polarization method. Prikl. geofiz. no.25:177-191 '60. (MIRA 13:6)
(Electric prospecting)

DAKHNOV, V.N.; KOBRANOVA, V.N.; PECHERNIKOV, V.F.; BENDEL'SHTEYN, B.Yu.; KHOLIN, A.I.; POZIN, L.Z., D'YAKONOV, D.I.; LATYSHEVA, M.G.; DOBRYNIN, V.M.; LARIONOV, V.V.; NEYMAN, Ye.A.; LEBEDEV, A.P.

Terminology and symbols used in applied geophysics. Prikl. geofiz. no.27:223-235 '60. (MIRA 13:12)
(Prospecting--Geophysical methods)

DAKHNOV, V.N.; GALIMOV, E.M.

Karst type pores in producing carbonate sediments. Geol. nefti i gaza 4 no.2:28-31 F '60. (MIRA 13:10)

1. Moskovskiy, institut neftekhimicheskoy i gazovoy promyshlennosti im.akad.Gubkina.

(Porosity)

DAKHNOV, V.N.

Taking into account the effect of clay when calculating the oil and gas ratio using resistivity logging data. Geol. nefti i gaza 4 no. 12:21-24 D '60. (MIRA 13:12)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad.Gubkina.
(Oil reservoir engineering)

DAKHNOV, V.N.

Present state of geophysical methods used in determining reservoir characteristics and oil and gas saturation of rocks and paths of further research. Trudy VNII no.29:6-31 '60. (MIRA 13:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad.Gubkina.
(Oil well logging)

DAKHNOV, V.N.

Using geophysical methods for studying the cross sections of wells when evaluating oil and gas reserves. Geol. nefti i gaza 4 no.8: 46-52 Ag '60. (MIRA 13:8)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im.akad.Gubkina.
(Petroleum geology)

FEDYNSKIY, V.V., red.; DAKHNOV, V.N., red.; VASIL'YEV, V.G., red.; KALENOV, Ye.N., red.; KOMAROV, S.G., doktor tekhn. nauk, red.; POLSHKOV, M.K., red.; RYABINKIN, L.A., red.; PERSHINA, Ye.G., vedushchiy red.; MUKHINA, E.A., tekhn. red.

[Manual for geophysicists in four volumes] Spravochnik geofizika v chetyrekh tomakh. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry. Vol.2. [Geophysical methods of well logging] Geofizicheskie metody issledovaniia skvazhin. Pod red. S.G.Komarova. 1961. 760 p. (MIRA 14:11)

(Oil well logging)

DAKHNOV, Vladimir Nikolayevich, prof.; BEKMAN, Yu.K., ved. red.; VORONOVA, V.V., tekhn. red.

[Interpretation of the results of geophysical studies of cross sections of holes]Interpretatsiia rezul'tatov geofizicheskikh issledovanii razrezov skvazhin. Izd.2., perer. i dop. Moskva, Gostoptekhizdat, 1962. 547 p. ___ [Album of diagrams for interpreting the results of studies of holes by the resistivity method] Al'bom paletok dlia interpretatsii rezul'tatov issledovaniia skvazhin metodom soprotivlenii. 17 graphs (in portfolio) (MIRA 15:10)

(Prospecting—Geophysical methods)

S/169/62/000/005/041/033
D228/D307

AUTHORS: Alekseyev, F. A., Gulin, Yu. A., Dakhnov, V. N., Flerov, G. N. and Shimelevich, Yu. S.

TITLE: Use of methods of atomic physics in seeking and exploiting oil and gas

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 39, abstract 5A294 (V. sb. 5-y Mezhdunar. neft. kongress, v.I, M., Gostoptekhizdat, 1961, 325-338)

TEXT: The results of the application of radioactive methods in the oil and gas industry are reviewed. The accuracy of estimating the rock porosity from radioactivity logging data depends on a number of causes of a geologic and a tectonic character: The salinity of the stratal waters and the drilling solution, the chemical composition of the rocks, borehole - design, the position of the instrument in it, etc. The depth potential of all radioactivity logging methods is very small: In neutron-gamma logging it comprises 10 - 30 cm, while in gamma-gamma logging it is 5 - 8 cm. It is noted

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Use of methods ...

that in porosity measurements the gamma-gamma logging and the neutron-neutron logging methods are more sensitive than neutron-gamma logging, especially in the region of high porosity values. Side by side with the advantages of the methods of neutron-neutron logging and gamma-gamma logging against neutron-gamma logging (the absence of any influence of the mineralization of stratal waters and drilling solutions on the readings, the high sensitivity) they have an essential defect -- to wit, the strong influence of the borehole design on the measurements results. The reliability of the results of porosity determinations rises considerably if a complex, consisting of neutron-neutron and gamma-gamma logging, is used. A complex device, whose design is given and which ensures the simultaneous recording of neutron-neutron and gamma-gamma logging diagrams, has recently been developed; it is intended for obtaining data about the rock porosity in unstrengthened wells. The movement of the oil-water and the gas-liquid contact zone during the exploitation of oil and gas fields can be successfully followed by means of radiometric methods. The most sensitive method of separating sand and carbonate beds into the oil- and water-bearing parts at

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DAKHNOV, V.N.

Calculation and study of the clayiness of reservoirs in contour and intrabboundary flooding. Neft. khoz. 39 no.5:51-53 My '61. (MIRA 14:9)

(Oil field flooding) (Clay)

SULTANOV, Sagday Akhmadiyevich; KHAR'KOV, Vladimir Afanas'yevich; DAKHNOV, V.N., doktor geol.-miner. nauk, red.; YUNGAS, S.M., ved. red.; YAKOVLEVA, Z.I., tekhn. red.

[Controlling the movement of water-oil contacts and oil-bearing contours]Kontrol' za prodvizheniem vodo-neftianogo kontakta i konturov neftenosnosti. Pod red. V.N.Dakhnova. Moskva, Gostoptekhizdat, 1962. 166 p. (MIRA 15:12)
(Oil reservoir engineering)

DAKHNOV, V.N., doktor geol.-miner. nauk; KHOLIN, A.I., kand. geol.-miner.nauk; PESTRIKOV, A.S.; GALUZO, Yu.V.; AFRIKYAN, AN.; YUDKEVICH, R.V.; POPOV, V.K.; POZIN, L.Z.; LARIONOV, V.V.; VENDEL'SHTEYN, B.Yu.; GORBUNOVA, V.I.; DZYURAK, M.D.; YEVDOKIMOVA, V.A.; ZHOKHOVA, R.G.; LATYSHEVA, M.G.; MAREN'KO, N.N.; MANCHEVA, N.V.; MOROZOVICH, Ya.R.; OREKHOVSKAYA, Ye.P.; POKLONOV, M.S.; ROMANOVA, T.F.; SEVOST'YANOV, M.M.; TANASEVICH, N.I.; FARMANOVA, N.V.; FEDOROVICH, G.P.; SHCHERBININ, V.A.; ELLANSKIY, M.M.; YANUSH, Ye.F.; YUNGANS, S.M., ved. red.; YAKOVLEVA, Z.I., tekhn. red.

[Using methods of field geophysics in studying gas-bearing reservoirs]Primenenie metodov promyslovoi geofiziki pri izuchenii gazonosnykh kollektorov. Moskva, Gostoptekhizdat, 1962. 279 p. (MIRA 16:2)

(Gas, Natural--Geology)
(Prospecting--Geophysical methods)

DAKHNOV, V.N.

Using data from the miximum points of Laterlog curves in determining the porosity coefficient of reservoirs. Geofiz. razved. no.10:65-70 '62. (MIRA 15:12)
(Oil well logging, Electric)

DAKHNOV, V.N.

Nomogram for determining the porosity by volume and the mineralogical density of a rock and also the media by density which impregnate its pores. Razved. i prom. geofiz. no.46:80-81 '62. (MIRA 16:3)
(Homography (Mathematics)) (Rocks--Radioactive properties)

VENDEL'SHTEYN, B.Yu.; BUKANOVA, M.G.; GORBENKO, A.S.; ISHMETOV, M.G.; SKIBITSKAYA, N.A.; MANCHEVA, N.V.; SHVARTSMAN, M.D.; DAKHNOV, V.N., doktor geol.-miner. nauk, prof., red.; KUZ'MINA, N.N., ved. red.; POLOSINA, A.S., tekhn. red.

[Album of nomograms and charts for interpreting the data of geophysical methods for studying wells] Al'bom nomogramm i paletok dlia interpretatsii dannykh geofizicheskikh metodov issledovaniia skvazhin. Pod red. V.N.Dakhnova. Moskva, Gostoptekhizdat, 1963. 61 p. (MIRA 16:11)
(Prospecting--Geophysical methods)

LARIONOV, Vyacheslav Vasil'yevich; DAKHNOV, V.N., doktor geol.-miner. nauk, prof., red.; BEKMAN, Yu.K., ved. red.; VORONOVA, V.V., tekhn. red.

[Nuclear geology and geophysics] IAdernaia geologiia i geofizika. Moskva, Gostoptekhizdat, 1963. 351 p. (MIRA 16:12)

(Nuclear geophysics)

DAKHNOV, V.N.

Using the time factor in interpreting the results of studying wells by the resistivity method. Trudy MINKHiGP no.41:93-98 '63.

Determination of the specific resistivity of formation waters of clay reservoirs and study of their surface conductivity. 99-104
(MIRA 16:10)

DAKHNOV, V.N.; SHAPIRO, D.A.

Loads on the cable in inclined holes. Trudy MINKHiGP no.41: 238-241 '63. (MIRA 16:10)

DAKHNOV, V.N.

Using caliper log data for dividing carbonate sediments. Geol. nefti i gaza 7 no.6:52-56 Je '63. (MIRA 16:9)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akademika Gubkina.

[illegible], Leonid Zakharovich; [illegible], V.N., doktor geol.-mineral. nauk, prof., red.; IEMSHINA, Ye.G., ved. red.

[Differential thermometry of gas and oil wells] Differentsial'naia termometriia gazovykh i neftianykh skvazhin. Moskva, Nedra, 1964. 113 p. (MIRA 17:12)

VENDEL'SHTEYN, Boris Yur'yevich; LARIONOV, Vyacheslav Vasil'yevich; DAKHNOV, V.N., prof.; ZARETSKAYA, A.I., ved. red.

[Using the data of field geophysics in estimating gas and oil reserves] Ispol'zovanie dannykh promyslovoi geofiziki pri podschete zapasov nefti i gaza; metodicheskoe rukovodstvo. Moskva, Izd-vo "Nedra," 1964. 197 p.
(MIRA 17:6)

DAKHNOV, V.N., LEBEDEV, A.P.

Importance of deep karst for petroleum geology. Trudy MOIP 12:88-94 '64. (MIRA 18:1)

DAKHNOV, V.N.

Field geophysics. Neft. khoz. 42 no.9/10:121-123 S-O '64.
(MIRA 17:12)

GRECH[illegible]KHIN, Vladimir Vasil'yevi[illegible]; D[illegible], V.[illegible], doktor [illegible] nauk, prof., red.
[Geophysical methods of investigating exploration boreholes in coal beds] Geofizicheskie metody issledovaniia [illegible] nykh skvazhin. Moskva, Nedra, [illegible] p. [illegible]

1. [illegible]duy[illegible] kafedry [illegible] Instituta neft[illegible] [illegible] [illegible]).

DAKHNOV, V.N.; LEBEDEV, A.P.

Reservoir rocks of karst origin and their industrial significance for petroleum geology. Trudy MINKHiGP no.50:215-223 '64
(MIRA 18:2)

DAKHOV, V.N.

Geological interpretation of the data of field geophysics using punch cards. Trudy MINKHiGP no.50:166-176 '64
(MIRA 18:2)

DAKHNOVA, A. Ya.

37650. Kostnaya plastika pri reamputatsiyakh na kul'tyakn nizhnikh konechnostey. Trudy Tomskogo med, In-ta im. molotova, T. XV, 1949, S. 170-81

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

DAKHNOVA, A. YA

USSR/Medicine - New Atomizer Oct 53

"A New Method for Intra-Bronchial Administration of Drugs," A. Ya. Dakhnova, Cand of Med Sci, Propedeutic Surgical Clinic, Tomsk Med Inst

Khirurg, No 10, pp 44-47

The DN-2 apparatus is a modification of the DN, an atomizer for intra-tracheal or intrabronchial administration of drugs and/or anesthetics in lobar operations. The modified apparatus (illustrated in the text) has been tested at various medical institutions, and has been approved by the Technical Council, Ministry of Health USSR, in Order 5/21 of 3 Jul 51.

273T42

CTRSPL Vol. 5-No. 1 Jan. 1952

[illegible], Dakhnova, L.S. and Strekozova, N.N. (First Cavalry Zoological-Veterinary [illegible], Novocherkassk). The effect of a temporary change in saltiness on the propagation [illegible] region. 179-81

Akademiya Nauk, S.S.S R., Doklady Vol. 78, No. 2 -1951

KOBRANOVA, Vera Nikolayevna; DAKHNOVA, V.N., doktor geol.-miner. nauk, prof., red.; PERSHINA, Ye.G., ved. red.; VORONOVA, V.V., tekhn. red.

[Physical properties of rocks; petrophysic] Fizicheskie svoistva gornykh porod; petrofizika. Pod red. V.N.Dakhnova. Moskva, Gostoptekhizdat, 1962. 490 p. (MIRA 16:2)
(Petrology)

DAKHNOVA, YE. N.

USSR/Medicine - Bactericides Sep 48
Medicine - Marine Organisms

"Survival of Bacteria in Coelenterata in Sea Water and Steam," Ye. N. Dakhnova, Crimean Inst of Epidemiol and Microbiol, 2 pp

"Gig i San" No 9

Claims from tests conducted that sea water and steam acted as weak bactericide against bacteria in the Cpelenterata and that bactericidal characteristics of water and steam endured considerable changes under the influence of sterilization, filtration, removal or introduction of various kinds of microorganisms. It is also necessary to consider the influence of other factors such as self-purification.

KOLKER, I.I., DAKHNOVA, Ye.N., PATENKOV, M.N.

Effect of plowing methods on some soil micro-organisms in fallowed fields [with summary in English]. Mikrobiologiia 27 no.3:340-347 My-Je '58 (MIRA 11:9)

1. Krymskiy sel'skokhozyaystvennyy institut im. M.I. Kalinina, Simferopol'.
(PLOWING)
(SOIL MICRO-ORGANISMS)

KOLKER, I.I.; DAKHNOVA, Ye.N.

Distribution of Azotobacter in the Crimean soils. Mikrobiologiia 29 no. 4:555-562 Jl-Ag '60. (MIRA 13:10)

1. Krymskiy sel'skokhozyaystvennyy institut imeni M.I. Kalinina Simferopol'.

(CRIMEA—AZOTOBACTER)

DAKHNOVICH, T. B.

Dakhnovich, T. B.

"An evaluation of the biology and selection of collected samples of cotton under the conditions of the Kunya-Dar'ya lowlands of the Turkmen SSR." All-Union Order of Lenin Academy of Agricultural Sciences imeni V. I. Lenin. All-Union Inst of Plant Growing. Leningrad, 1956 (Dissertation for the degree of Candidate in Biological Sciences)

Knizhnaya letopis'
No. 25, 1956. Moscow

DAKHNOVICH, T. B.

Selecting starting material for cotton breeding in northern Turkmenistan. Izv.AN Turk. SSR no.5:129-131 '57. (MIRA 10:10)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut rasteniyevodstva.
(Turkmenistan--Cotton breeding)

[illegible] : USSR
[illegible] : Cultivated Plants - Industrial. Oleiferous, Sugar. M

[illegible] : Zhurn., No.14, 1958, No. [illegible]

[illegible] : [illegible]vich, I.B.
[illegible] : Academy of Sciences, Turkmen SSR
[illegible] : Effect of Salification of Soils on the Changes in Some Characteristics of Cotton Plant.

[illegible] : Khlopkovodstvo, 1957, No. 5, [illegible]

[illegible] : Results of the study of the effect of salification on different species and varieties of cotton plant from the collection of All-Union Institute of Plant Cultivation, under the conditions of northern Turkmeniya on takyr-like sierozems containing chlorous salts and sulfates in the amount of 0.02-0.1%. Work was conducted at Tashauzskaya experiment station of the Academy of Sciences of Turkmen SSR situated on newly broken lands of Amu-Dar'ya delta. Seeds were obtained from the Middle Asiatic station of the Institute where they have been grown for many years. With

Card: 1/2

DAKHNOVSKIY, A.K., mayor meditsinskoy sluzhby.

Ophthalmological aid to military personnel at N garrison during the Great Patriotic War, based on the data of the garrison hospital and outpatient department. Voen.-med.zhur. no.10:7-15 O '47. (MLRA 6:11)
(Ophthalmology)

L 29732-65 EWT(d)/EWT(m)/EWP(w)/EWA(d)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWA(c)/EWP(l) Pf-4 JD/HW/EM

ACCESSION NR: AR5004773 S/0137/64/000/010/D020/D020

SOURCE: Ref. zh. Metallurgiya, Abs. 10D118

AUTHOR: Trishevskiy, I. S.; Klepanda, V. V.; Dakhnovskiy, B. S.

TITLE: Perfecting the production of curved rolled shapes of the ribbed sheet type by calibration with an upset wavy billet

CITED SOURCE: Sb. tr. Ukr. n.-i. in-t metallov, vyp. 9, 1964, 240-251

TOPIC TAGS: rolling effect, rolling mill, roll forging, upsetting, wavy billet, ribbed surface

TRANSLATION: A scheme worked out for the calibration of rollers with an upset wavy billet assures a considerable reduction in the amount of metal thinning at bending points, since in shaping a wavy billet the metal bends in a large radius decreasing the width of the elongated zone and consequently the amount of thinning. Upsetting takes place at the expense of compression of the peak of the wave. Deformation by elongation at the bending points produced during stretching of the

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ACCESSION NR: AM5001773

billet around the roller is replaced by compression deformation, which also helps to reduce metal thinning. Obtaining a precise form in the ribs of a sheet and completing the arc at the points of curvature can be assured by upsetting the wavy billet on two stands instead of one to lessen deformation of the metal during upsetting. Formation of waves on the edges of the bar is eliminated by the double arrangement of upsetting stands which facilitate forming conditions during the upsetting of wavy billets. To obtain curvatures at the points of transition from the horizontal elements of the sheet to the inclined elements to fulfill the requirements of industrial conditions, it is necessary to reduce the length of the radii of curvature on the tops of the upper roller of the 2nd upsetting stand from 6 to 5 mm, and of the bottom roller correspondingly from 9 to 8 mm. Bending of the free outer portions of the finished shape can be eliminated on the last forming stand by overlapping of the strip being formed over its whole cross section. Longitudinal contraction of the sheet must be formed on the two or three last pairs of rollers in the mill, since with an increase in the number of stands for forming this contraction, deformation of the metal occurs at the bending points. K. Ukanova.

SUB CODE: MM ENCL: 00
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TRISHEVSKIY, I.S.; KLEPANDA, V.V.; DAKHNOVSKIY, E.S.

Mastering the production of bent rolled shapes of the ribbed plate type with grooving of the rolls and upsetting of the build-up produced. Sbor. trud. UNIIM no.9:240-251 '64
(MIRA 18:1)

ACCESSION NR: AP4041705 S/0181/64/006/007/2032/2036

AUTHOR: Dakhovskiy, I. V.

TITLE: Anisotropy of the Hall coefficient in n-Ge

SOURCE: Fizika tverdogo tela, v. 6, no. 7, 1964, 2032-2036

TOPIC TAGS: Hall coefficient, electron scattering, germanium, transport coefficient, magnetic anisotropy

ABSTRACT: The variation of the Hall coefficient, $\Delta R/R_0$, as a function of the magnitude and direction of the magnetic field is calculated by using the theory of anisotropic electron scattering, developed by Herring and Vogt (Phys. Rev. 101, 944, 1956), A. G. Samoylovich et al. (FTT v. 3, 3285 and 2939, 1961) and specifically by I. Ya. Korenblit (FTT v. 4, 168, 1962). The transport equations are solved in an assumption wherein all the coefficients of expansion of the non-equilibrium distribution function are assumed to

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vanish. The results are compared with experimental results obtained for n-Ge by P. I. Baranskiy and P. M. Kurilo (FTT v. 6, 54, 1964) for rotation of the magnetic field vector in the (100) and (110) planes. The discrepancy between the present calculations and the experiments does not exceed 2--3% if the field is limited to 20,000 Oe. "The author thanks A. G. Samoylovich for suggesting the topic, guidance, and continuous help, and to P. I. Baranskiy for communicating his experimental results prior to publication and for useful remarks." Orig. art. has: 2 figures and 11 formulas.

ASSOCIATION: Chernovitskiy gosudarstvenny*y universitet (Chernovtsy* State University)

SUBMITTED: 22Jan64 ENCL: 00

SUB CODE: SS NR REF SOV: 004 OTHER: 001

Card 2/2

BARANSKIY, P.I.; DAKHOVSKIY, I.V.; KURILO, P.M.

Anisotropy of the Hall coefficient for n-Si in the region of intermediate magnetic fields. Fiz. tver. tela 6 no.7:2204-2207 Jl '64.
(MIRA 17:10)

1. Institut poluprovodnikov AN UkrSSR, Kiyev.

BARANSKIY, P.I.; DARKOVSKIY, I.V.; KURILO, I.M.

Concentration dependence of the anisotropy of the Hall coefficient in n-germanium. Fiz. tver. tela 6 no.10:3089-3091 O '64.
(MIRA 17:12)

1. Institut poluprovodnikov AN UkrSSR, Kiyev.

DAKHNOVSKIY, M.V.; OSADCHUK, O.D., starshiy nauchnyy sotrudnik

Development of poultry farming. Nauka i zhyttia 8 no.4:27-29 Ap '58. (MIRA 13:5)

1. Direktor Ukrainskoy issledovatel'skoy stantsii ptitsevodstva (for Dakhnovskiy).
(Ukraine--Poultry)

DAKHNOVSKIY, M.V. [Dakhnovs'kyi, M.V.]

Hybridization of poultry. Nauka i zhyttia 10 no.9:25-27 S '60. (MIRA 13:9)

1. Chlen-korrespondent Ukrainskoy akademii sel'skokhozyaystvennykh nauk, Khar'kov.
(Poultry breeding)

USSR/Farm Animals. Poultry Q-4

Abs Jour : Ref Zhur - Biol., No 19, 1958, No 88175

Author : Dakhnovskiy N.V.
Inst : -
Title : Rearing Chickens on Thick Bedding

Orig Pub : Ptitsevodstvo, 1956, No 9, 24-29

Abstract : In the USA the application of a thick bedding for poultry, replaced once a year, is widespread. This had made it possible to increase the number of hens that can be services by a single attendant, and to reduce to its minimum the expenditure of labor and means of maintenance. The bedding is a distinctive sterilizer of a number of microorganisms that are harmful to poultry, and also it is a source of Vitamin B_{12}, which promotes the growth of young hens and the increase in the egg laying capacity of hens. The application of a non-replaceable thick litter adjusted once a year is feasible in accommodations of any type so long as they are dry and well-ventilated. The material of

Card : 1/2

DAKHOVSKIY, N. V.
Experimental Poultry Breeding Station, Borki.

"Duck Breeding in Sea and Fresh Water Basins."

Paper presented at 11th. Congress of World Poultry Assoc., Mexico City, 21-28 Sep 58.

DAKHNOVSKIY, N.V.

International Tom Newman prize. Ptitsevodstvo 8 no.10:47-48 O '58. (MIRA 11:10)
(Rewards (Prizes, etc.)) (Poultry research)

DAKHNOVSKIY, N.V., kand.biol.nauk

Specialize the production of poultry for eggs and meat. Ptitsevodstvo 8 no.12:9-10 D '58. (MIRA 11:12)

1. Direktor Ukrainskoy opytnoy stantsii ptitsevodstva.
(Poultry)

DAKHNOVSKIY, N.V.; SYCHIK, Ye.V., red.; POLESITSKAYA, S.M., tekhn.red.

[Intensive poultry farming in the United States] Intensivnoe ptitsevodstvo v Soedinennykh Shtatakh Ameriki. Moskva, Izd-vo M-va sel'.khoz.SSSR, 1959. 125 p. (MIRA 13:10)
(United States--Poultry)

VOLKOV, V.A.; FEDOROVSKIY, N.P., kand.biolog.nauk; PENIONZHKEVICH, E.E., prof., doktor biolog.nauk; MASLIYEV, I.T., kand.sel'skokhoz.nauk; KRIKUN, A.A., kand.sel'skokhoz.nauk; PATRIK, I.A., kand.sel'skokhoz. nauk; MALINOVSKAYA, A.S., kand.biolog.nauk; DAKHNOVSKIY, N.V., kand.biolog.nauk; OKLOV, M.V., kand.sel'skokhoz.nauk; REDIKH, V.K., kand.sel'skokhoz.nauk; GOFMAN, M.B., zootekhnik; GRIGOR'YEV, G.K., starshiy nauchnyy sotrudnik; GORIZONTOVA, Ye.A., starshiy nauchnyy sotrudnik; FEOKTISTOV, P.I., kand.veter.nauk; KOTEL'NIKOV, G.A., kand.veterin.nauk; SHKUDOVA, R.I., red.; BALAKIN, V.M., red.; GRADUSOV, Yu.N., red.; SOKOLOVA, G.S., red.; SAYTANIDI, L.D., tekhn.red.

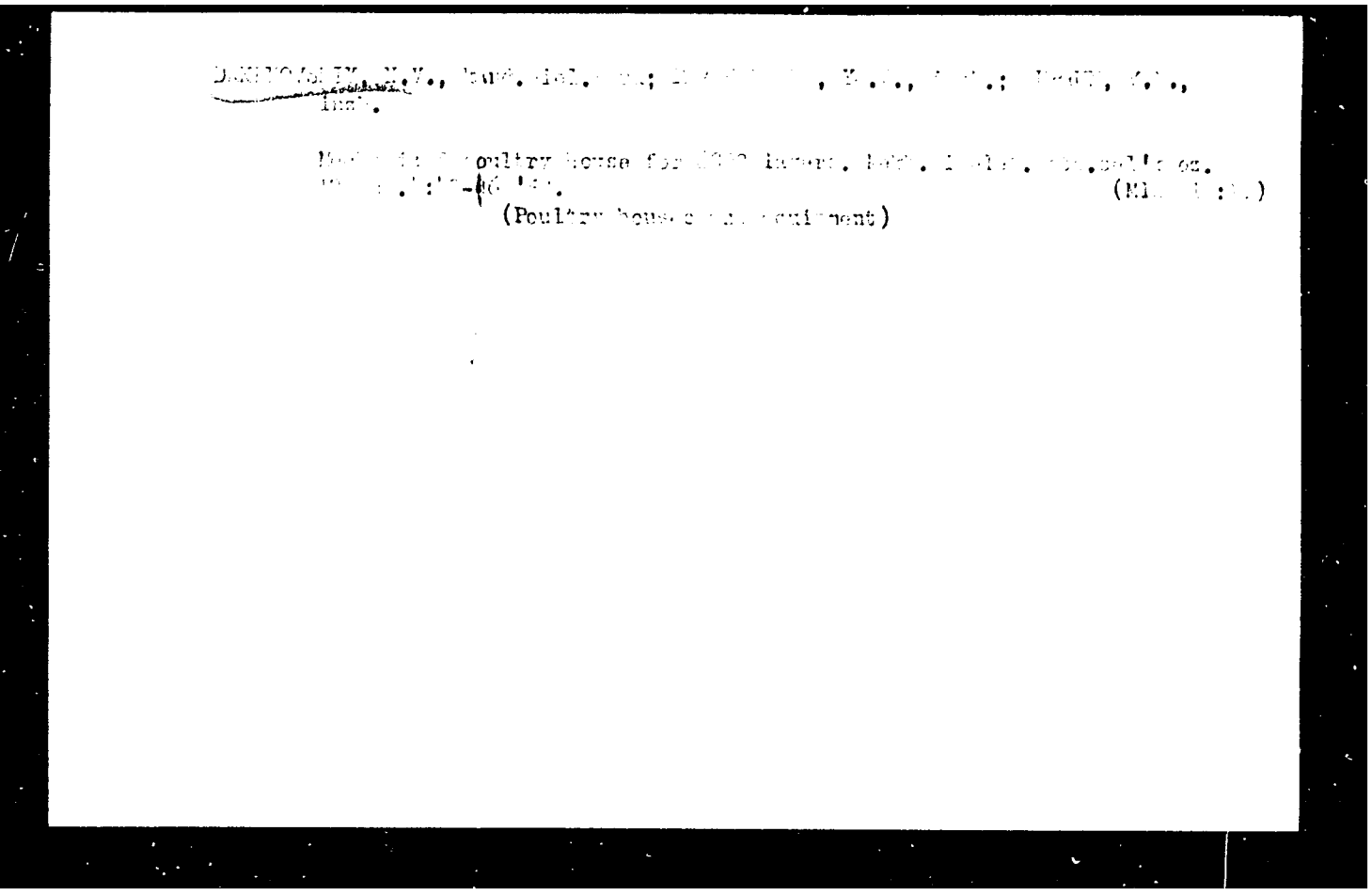
[Duck raising] Utkovodstvo. Izd-vo M-va sel'khoz. R.S.F.S.R., 1959. 284 p. (MIRA 13:12)

1. Nachal'nik Glavnogo upravleniya ptitsevodstva Ministerstva sel'skogo khozyaystva RSFSR (for Volkov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsepromyshlennosti (for Grigor'yev). 3. TSentral'nyy nauchno-issledovatel'skiy institut ptitseperera-batyvayushchey promyshlennosti (for Gorizontova).
(Ducks)

DAKHNOVSKIY, N.V.; KEGELES, Ye.S.; OSADCHUK, A.D.

Extra-wide chicken house with over-all mechanization for keeping hens on permanent litter. Ptitsevodstvo 9 no.1:17-23 Ja '59. (MIRA 12:1)

1. Ukrainskaya opytnaya stantsiya ptitsevodstva.
(Poultry houses and equipment)



(Poultry house equipment)

PSHENICHNYY, P.D., akademik, otv. red.; DAKHNOVSKIY, N.V., red.; KUTIKOV, S.I., doktor sel'khoz. nauk, red.; SVECHIN, K.B., prof., doktor sel'khoz. nauk, red.; KOVALENKO, N.A., kand. sel'-khoz. nauk, red.; MOKEYEV, A.Ye., kand. sel'khoz. nauk, red.; MAZUR, V.N., red.; KVITKA, S.P., tekhn. red.

[Ways for increasing meat production; materials of a session] Puti uvelicheniia proizvodstva miasa; materialy sessii. Kiev, Izd-vo Ukrainskoi Akad. sel'khoz.nauk, 1962. 199 p. (MIRA 15:7)

1. Kiyev. Ukrains'ka Akademiia sil's'kohospodars'kykh nauk. Otdeleniye zhivotnovodstva. 2. Ukrainskiy nauchno-issledovatel'-skiy institut ptitsevodstva, Chlen-korrespondent Ukrainskoy Akademii sel'skokhozyaystvennykh nauk (for Dakhnovskiy). 3. Ukrainskaya Akademiya sel'skokhozyaystvennykh nauk (for Pshenichnyy). 4. Nauchno-issledovatel'skiy institut zhivotnovodstva Lesostepi i Poles'ya USSR (for Kutikov). 5. Uchebnaya chast' Ukrainskoy Akademii sel'skokhozyaystvennykh nauk (for Svechin). 6. Poltavskiy nauchno-issledovatel'skiy institut svinovodstva (for Kovalenko). 7. Ukrainskiy nauchno-issledovatel'skiy institut zhivotnovodstva stepnykh rayonov im. M.F.Ivanova, "Askaniya-Nova" (for Mokeyev).

(Ukraine—Stock and stockbreeding)

DAKHNOVSKIY, N. V.

"Raising of Hybrid Ducks"

Report sumbitted for the Twelfth World's Poultry Congress,
Sydney, Australia 10-18 Aug 1962

DAKHNOVSKIY, R., gvardii podpolkovnik, voyennyy shturman pervogo klassa

Precession of the course gyroscope and lateral laying. Vest. Vozd. Fl. no.12:79 D '61. (MIRA 15:3)
(Bombing, Aerial)

SOV/86-58-9-13/42

AUTHOR: Dakhnovskiy, R. G., Guards Maj, Military Navigator First Class

TITLE: Precision Bombing With Radar Bombsight (Tochnost' bombometaniya s radio-lokatsionnym pritselom)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 9, pp 25-29 (USSR)

ABSTRACT: In this article the author draws attention to certain errors made in the adjustment and calibration of radar bombsights, describes the causes of such errors, and explains how they can be eliminated. Two diagrams.

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DAKHNOVSKIY, R.G., gvardii podpolkovnik, voyennyy shturman pervogo klassa.

Eliminating failures to get on the landing path in the clouds.
Vest.Vozd.Fl. no.9:44-47 S'60. (MIRA 13:10)
(Instrument landing systems) (Airplanes--Landing)

DAKHNOVSKIY, R.G., podpolkovnik, voyennyy shturman pervogo klassa

Control of the flight path by means of the radio altimeter.
Vest.Vozd.Fl. no.6:77-78 Je '61. (MIRA 14:8)
(Navigation (Aeronautics)) (Altimeter)

DAKHNOVSKIY, R., starshiy shturman

In flight and landing. Grazhd. av. 20 no.6:18 Je '63. (MIRA 16:8)

(Instrument flying)

SOV/68-59-5-16/25

AUTHORS: Dakhnovskiy, S.A. and Pliner, A.I.

TITLE: Cold Repairs of a Group of Ovens in a Silica Battery (Kholodnyy remont gruppy pechey v dinasovoy batareye)

PERIODICAL: Koks i khimiya, 1959, Nr 5, pp 47-50 (USSR)

ABSTRACT: A description of cold repairs of the five end walls in a coke oven battery is given.
There are 4 figures.

ASSOCIATIONS: Teplotekhstantsiya and Yenakiyevskiy koksokhimicheskiy zavod (Yenakiyevo Coking Works)

Card 1/1

DAKHOVKER, S.Ye.

BLYUGER, A.F.; GAGAYNE, A.E.; DAKHOVKER, S.Ye.; MINTSENGOF, L.A.; RATENBERG, N.S.; CHARNYY, S.D.

Comparative results of the use of piperazine-adipate and oxygen in the treatment of ascariasis [with summary in English]. Med.paraz.i paraz.biol. 26 no.1:77-80 Ja-F '57. (MLRA 10:6)

1. Iz kafedry infektsionnykh bolezney (zav. - dotsent M.M.Budzhe) Rizhskogo meditsinskogo instituta, Instituta eksperimental'noy meditsiny (dir. - prof. F.Ya.Gerke) Akademii nauk Latviyskoy SSR, Rizhskoy gorodskoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach M.M.Popova)

(ASCARIASIS, ther.
piperazine adipate & oxygen, comparison)
(PIPERAZINES, ther. use
piperazine adipate in ascariasis, comparison with oxygen ther.)
(OXYGEN, ther. use
ascariasis, comparison with piperazine adipate ther.)

BUDZHE, M.M.; BLYUGER, A.F.; DAKHOVKER, S.Ye.; LAZDYNYA, M.A. [Lazdiņa, M.A.]; SHENIGSON, B.S.

Comparative study on various systems of ascariasis therapy using piperazine salts. Med.paraz. i paraz.bol. 28 no.4:436-438 Jl-Ag '59. (MIRA 12:12)

1. Iz Instituta organicheskogo sinteza Akademii nauk (Latviyskoy SSR; kafedry infektsionnykh bolezney Rizhskogo meditsinskogo instituta; Latviyskoy respublikanskoy i Rizhskoy gorodskoy sanitarno-epidemiologicheskikh stantsiy.

(ASCARIASIS therapy)
(PIPERAZINES therapy)

SAMOYLOVICH, A.G.; KORENBLIT, I.Ya.; DAKHOVSKIY, I.V.

Anisotropic scattering of electrons on ionized impurities. Dokl. AN SSSR 139 no.2:355-358 Jl '61. (MIRA 14:7)

1. Institut poluprovodnikov AN SSSR. Predstavleno akademikom A.A. Lebedevym.

(Electrons--Scattering)

29624
S/181/61/003/010/006/036
B102/B108

24.7200 (1144, 1153, 1160)

AUTHORS: Samoylovich, A. G., Korenblit, I. Ya., Dakhovskiy, I. V., and Iskra, V. D.

TITLE: Solution of the kinetic equation for anisotropic electron scattering

PERIODICAL: Fizika tverdogo tela, v. 3, no. 10, 1961, 2951-2952

TEXT: Elastic electron scattering is studied theoretically under the following assumptions: The considered system is under the influence of an external electric field and a temperature gradient. The electron energy spectrum is given by $\varepsilon = \sum_{i=1}^{3} \frac{\hbar^2 k_i^2}{2m_i}$. Electric field and temperature gradient are weak, no magnetic field exists. The kinetic equation is given as

$$\hat{D}n_{\mathbf{k}}^{(0)} + \hat{R}n'_{\mathbf{k}} = 0. \qquad (1.2)$$

$$\hat{R}n'_{\mathbf{k}} = \sum_{\mathbf{k}'} W_{\mathbf{k}\mathbf{k}'}(n'_{\mathbf{k}'} - n'_{\mathbf{k}}), \qquad (1.3).$$

Card 1/5

Solution of the kinetic equation...

$n_{\vec{k}}^{(0)}$ denotes the equilibrium distribution function, $n_{\vec{k}}^{1}$ the nonequilibrium correction to it, $\hat{D}n_{\vec{k}}^{(0)}$ the free term

$$\hat{D}n_{\mathbf{k}}^{(0)} = \frac{1}{\hbar}\frac{\partial n_{\mathbf{k}}^{(0)}}{\partial \varepsilon}\left[\sum_i \frac{\partial \mu}{\partial x_i}\frac{\partial \varepsilon}{\partial k_i} + \frac{\varepsilon-\mu}{T}\sum_i \frac{\partial T}{\partial x_i}\frac{\partial \varepsilon}{\partial k_i} - e\sum_i \frac{\partial \varepsilon}{\partial k_i}\mathcal{E}_i\right], \quad (1,4)$$

of the kinetic equation, μ the chemical potential, $\mathcal{E}$ the external electric field, $\hat{R}$ the collision operator: $\hat{R}n_{\vec{k}}^{1} = \sum_{ij}\gamma_i(\varepsilon)\nu_{ij}k_j$, with $n_{\vec{k}}^{1} = \sum_i \gamma_i(\varepsilon)k_i$ (1.5) and

$$\sum_{\mathbf{k}'} W_{\mathbf{k}\mathbf{k}'}(k_i' - k_i) = \sum_j \nu_{ij}(\varepsilon)k_j; \quad (1,7)$$

Since (1.5) and (1.7) are not valid in every case, the authors tried to establish a method which makes it possible to find out in which cases (1.5) and (1.7) hold true and to solve the kinetic equation also when the aforementioned conditions are not valid. First, "deformed" coordinates are introduced in the quasimomentum space and the free term

Card 2/5

Solution of the kinetic equation...

(1.4) is transformed into $\hat{D}n_k^{(0)} = \sum_m D_m Y_{1m}(\vartheta_0\varphi_0)$ so that the kinetic equation goes over into an infinite system of linear algebraic equations. The solution has to be sought as an expansion into spherical harmonics $n_k^1 = \sum_{km} X_{km}(\varepsilon) \cdot Y_{km}(\vartheta_0\varphi_0)$. The collision operator is then given by

$$\hat{R}n_k^1 = -\sum_{jkmp} X_{km}(\varepsilon) B_{jk}(mp) Y_{jp}(\vartheta_0\varphi_0), \qquad (2,8)$$

$$-\sum_{jp} B_{jp}(mp) Y_{jp}(\vartheta_0\varphi_0) = \hat{R} Y_{km}(\vartheta_0\varphi_0). \qquad (2,9)$$

and $\sum_{km} B_{jk}(pm) X_{km} = D_p \delta_{j1}$, or, for $B_{jk}(pm) = B_{jk}(m)\delta_{mp}$, $\sum_k B_{jk}(m) X_{km} = D_m \delta_{j1}$ (2.11).
The coefficients $B_{jk}(pm)$ are found to be

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Solution of the kinetic equation...

$$B_{ik}(pm) = \frac{4\sqrt{2m_1^3 m_2^3 \varepsilon_p}}{(2\pi\hbar)^3} r^{-p} \sum_{j,k=0,2,4,\ldots} \sqrt{\frac{(2j+1)(2k+1)(j-s)!(k-s)!}{(j+s)!(k+s)!}} \times$$

$$\times \int d\Omega \int_0^{\pi} d\theta \sin\theta \cos\theta W(\theta\tau) P_j^s(\cos\theta) P_k^s(\cos\theta) P_p^l(\cos\theta) \times \qquad (3.33)$$

$$\times P_{lm}^s(\cos\theta) e^{i(\varphi-\varphi')m};$$

$$d\Omega = \sin\theta d\theta d\varphi.$$

where j and k are odd numbers. An iteration method is employed for the determination of X_{lm} in the system (2.11). The quickly converging series

$$X_{lm} = D_m \sum_l \frac{Z_{l-1}^2}{\Delta_l(m)\Delta_{l-1}(m)}, \qquad (4,6)$$

$$Z_{l-1}(m) = \begin{vmatrix} B_{31}(m) & B_{33}(m) \ldots B_{3,2l-3}(m) \\ \cdots\cdots\cdots\cdots \\ B_{2l-1,1}(m) & B_{2l-1,3}(m) \ldots B_{2l-1,2l-3}(m) \end{vmatrix}; \quad Z_0 = 1. \qquad (4,7)$$

is derived. The authors have used this method before to investigate electron scattering from impurity ions and acoustic phonons (results published elsewhere). Finally, a method of solving the kinetic equation,

Card 4/5

Solution of the kinetic equation...

which is based on the use of eigenfunctions of R is discussed in brief. There are 12 references: 9 Soviet and 3 non-Soviet. The reference to the English-language publication reads as follows: J. M. Ziman, Canad. Journ. Phys., 34, 1256, 1956.

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors AS USSR, Leningrad)

SUBMITTED: March 31, 1961

Card 5/5

3077h
S/181/61/003/011/006/056
B102/B138

24.7200 (1144,1153,1160)

AUTHORS: Samoylovich, A. G., Korenblit, I. Ya., Dakhovskiy, I. V., and Iskra, V. D.

TITLE: Anisotropic scattering of electrons from ionized impurities and acoustic phonons

PERIODICAL: Fizika tverdogo tela, v. 3, no. 11, 1961, 3285-3298

TEXT: In continuation of two previous papers (Ref. 1: FTT, 3, 10, 1961 and Ref. 2: DAN SSSR, 139, 355, 1961) the authors theoretically investigated inelastic electron scattering from impurity ions and acoustic phonons in cubic crystals. First the probability of scattering from impurity ions in a cubic crystal with isotropic dielectric constant is calculated in Born's approximation:

$$W(\theta\theta\varphi) = \frac{2\pi}{\hbar} N |V_{kk'}|^2 = \frac{\pi^3 e_0^4 N \hbar^3}{2\varepsilon^2 m_3^2 v^2 \left[\left(\cos^2\theta + \frac{m_1}{m_3}\sin^2\theta\right)\cos^2\theta + \gamma^2\right]^2}. \qquad (1.6)$$

ε is the dielectric constant, $\gamma = \hbar^2/8a^2 m_3$, a - shielding radius,

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Anisotropic scattering of electrons ...

N - number of impurity ions per cm^3, $V_{kk'}$ - transition matrix element

[Abstracter's note: Denotations and basic equations are taken from Ref. 1. It is impossible to follow the calculations if Ref. 1 is not available.]

In the next section the coefficients $B_{jk}(m)$ and the first terms of the X_{1m} series are determined approximately. The following results were obtained:

$$B_{jk}(0) = \frac{\pi C}{4} \ln \frac{1}{\gamma^2} \frac{m_3^3}{m_{12}^2 s^3} \sqrt{(2j+1)(2k+1)} \times$$

$$\times \sum_{s_{max.}} \frac{(j+s)!!\,(k+s)!!\,(j-s)!!\,(k-s)!!}{(k+s-1)!!\,(j+s-1)!!\,(k-s-1)!!\,(j-s-1)!!}. \qquad (2.8)$$

with

$$C = \frac{\pi N e_0^4 m_1}{\sqrt{2}\,\pi^3 m_3^{1/2} \varepsilon_0^{1/2}}. \qquad (2.2);$$

The approximate value $B_{jk}(0) \approx B_{jk}(0)$.

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Anisotropic scattering of electrons ...

$$X_{10}=\frac{D_0}{B_{11}(0)}(1+0.72+0.015+0.00018+\ldots). \qquad (2.9),$$

$$X_{11}=\frac{D_1}{B_{11}(1)}(1+0.72+0.015+\ldots). \qquad (2.12)$$

The third section deals with the relaxation time tensor for scattering from impurity ions. Relaxation time is assumed to be isotropic:

$$\tau^{-1}=\frac{N\pi e_0^4}{\varkappa^2\sqrt{2m^*\varepsilon^3}}\left(\ln\frac{1+\gamma^2}{\gamma^2}-\frac{1}{1+\gamma^2}\right). \qquad (3.9).$$

The non-vanishing components of the τ-tensor are given by

$$\left.\begin{aligned}\tau_{33}&=\chi_0=\frac{1}{B_{11}(0)}(1+g_0),\\ \tau_{11}&=\tau_{22}=\chi_1=\frac{1}{B_{11}(1)}(1+g_1).\end{aligned}\right\} \qquad (3.7)$$

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with $X_{1m} = D_m \chi_m$,

$$\chi_m = \frac{1}{B_{11}(m)}\left[1 + \frac{B_{13}^2(m)}{B_{11}(m)B_{33}(m) - B_{13}^2(m)}\right], \quad (3.1)$$

(3.2).

Thus for $B_{11}(m)$

$$B_{11}(0) = \frac{3\pi N e_0^4 \sqrt{2m_3}}{8\pi^3 \varepsilon^{5/2} m_1 \beta^3}\left\{2\left(\operatorname{arc\,tg}\beta - \frac{\beta}{1+\beta^2}\right)\ln\frac{1}{\gamma^2} - 2\operatorname{arc\,tg}\beta\ln(1+\beta^2) + \right.$$
$$\left. + 4L(\operatorname{arc\,tg}\beta) + (1+\beta^2)\left[\operatorname{arc\,tg}\beta + \frac{\beta(\beta^2-1)}{(1+\beta^2)^2}\right]\gamma^2\right\}, \quad (3.10)$$

$$B_{11}(1) = \frac{3\pi N e_0^4 \sqrt{2m_3}}{8\pi^3 \varepsilon^{5/2} m_1 \beta^3}\left\{[(\beta^2-1)\operatorname{arc\,tg}\beta + \beta]\ln\frac{1}{\gamma^2} - \right.$$
$$- 2\beta^2\operatorname{arc\,tg}\beta - (\beta^2-1)\operatorname{arc\,tg}\beta\ln(1+\beta^2) + 2(\beta^2-1)L(\operatorname{arc\,tg}\beta) +$$
$$\left. + \frac{1+\beta^2}{2}\left[(3\beta^2-1)\operatorname{arc\,tg}\beta + \frac{\beta(3\beta^2+1)}{1+\beta^2}\right]\gamma^2\right\}; \quad (3.11)$$

with the Lobachevskiy function $L(t) = -\int_0^t \ln\cos x\,dx$. As has already been shown in Ref. 1, all fluxes can be expressed by the relaxation

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time tensor. Its components depend only on energy. In section 4 the probability electron of scattering from acoustic phonons is determined by means of the deformation potential.

$$W(\vartheta\varphi)=\frac{\pi kT}{2\rho Vh}\sum_{\alpha}\frac{1}{\Omega_{\alpha}^{2}(\vartheta\varphi)}\left[\sum_{il}D_{il}(\eta_i e_l^{\alpha}+\eta_i e_l^{\alpha})\right]^2, \tag{4.7}$$

$$\eta_1=\sqrt{m_1}\sin\vartheta\cos\varphi,\quad \eta_2=\sqrt{m_2}\sin\vartheta\sin\varphi,\quad \eta_3=\sqrt{m_3}\cos\vartheta. \tag{4.8}$$

is found, where D_{il} is the tensor of the deformation potential constants, e^{α} the polarization vector, ρ the crystal density, V its volume, $\Omega_{\alpha}(\vartheta\varphi)$ is a certain function of the angles ϑ and φ. In section 5 the properties of the coefficients

$$B_{jk}(pm)=\frac{4\sqrt{2m_1m_2m_3\varepsilon}}{(2\pi\hbar)^3}i^{m-p}\sum_{\text{invar.}}\mathcal{L}^{s}_{jk}\mathcal{R}^{s}_{jk}(pm), \tag{5.1}$$

with

Card 5/8

Anisotropic scattering of electrons ...

$$\mathcal{L}^s_{jk}=2\sqrt{\frac{(j-s)!\,(k-s)!}{(j+s)!\,(k+s)!}}\int_0^{\frac{\pi}{2}} d\theta \sin\theta\cos\theta\, \dot{P}^s_j(\cos\theta)\, P^s_k(\cos\theta), \qquad (5.2)$$

$$\mathcal{R}^s_{jk}(pm)=\int d\Omega P^j_{sp}(\cos\theta)\, \dot{P}^k_{sm}(\cos\theta)\, e^{i(m-p)\varphi}, \qquad (5.3)$$

are investigated. The $\mathcal{L}^{(0)}_{jk}$ and $\mathcal{L}^{(2)}_{jk}$ are tabulated for some j and k values. In the last section the relaxation time tensor is calculated for electron scattering from acoustic phonons in Ge, Si and Bi_2Te_3. For k = j = 1 and $W(\ ) = W(\gamma, \gamma+\ )$ the general formulas are given:

$$\begin{cases} B_{11}(00)\,X_{10}=D_0, \\ B_{11}(11)\,X_{11}+B_{11}(1,-1)\,X_{1,-1}=D_1, \\ B_{11}(-1,1)\,X_{11}+B_{11}(-1,-1)\,X_{1,-1}=D_{-1}. \end{cases} \qquad (6.1)$$

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$$n'_k = n'_{\bar{k}} = \frac{D_0 Y_{10}(\theta_0\varphi_0)}{B_{11}(00)} + \frac{D_{-1}B_{11}(11) - D_1 B^*_{11}(1,-1)}{B^2_{11}(11) - |B_{11}(1,-1)|^2} Y_{1,-1}(\theta_0\varphi_0) + \frac{D_1 B_{11}(11) - D_{-1}B_{11}(1,-1)}{B^2_{11}(11) - |B_{11}(1,-1)|^2} Y_{11}(\theta_0\varphi_0). \quad (6.2)$$

$$B_{11}(1,-1) = |B_{11}(1,-1)|e^{i\psi} \quad (6.3)$$

$$\left.\begin{aligned} \tau_{11} &= \frac{B_{11}(11) - |B_{11}(1,-1)|\cos\psi}{B^2_{11}(11) - |B_{11}(1,-1)|^2}; \quad \tau_{22} = \frac{B_{11}(11) + |B_{11}(1,-1)|\cos\psi}{B^2_{11}(11) - |B_{11}(1,-1)|^2}; \\ \tau_{33} &= \frac{1}{B_{11}(00)}; \quad \tau_{12} = \sqrt{\frac{m_1}{m_2}} \frac{|B_{11}(1,-1)|\sin\psi}{B^2_{11}(11) - |B_{11}(1,-1)|^2}; \\ \tau_{21} &= \frac{m_2}{m_1}\tau_{12}. \end{aligned}\right\} \quad (6.4).$$

Then they are applied first to Ge and Si, then to Bi_2Te_3. There are 5 figures, 5 tables, and 14 references: 9 Soviet and 5 non-Soviet. The three references to English-language publications read as follows: R. B. Dingle, Phil. Mag., 46, 831, 1955; F. Ham. Phys. Rev. 100, 1251,

Card 7/8

30774
S/181/61/003/011/006/056
Anisotropic scattering of electrons ... B102/B138

1955; J. R. Drabble a. R. Wolfe. Proc. Phys. Soc. B69, 1101, 1956.

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors AS USSR, Leningrad)

SUBMITTED: May 9, 1961

Card 8/8

DAKHOVSKIY, I.V.

Anisotropic electron scattering in Ge and Si. Fiz. tver. tela 5 no.8:2332-2338 Ag '63. (MIRA 16:9)

1. Institut poluprovodnikov AN SSSR, Leningrad.
(Electrons--Scattering) (Germanium) (Silicon)

DAKHOVSKIY, I.V.

Calculation of thermomagnetic coefficients in semiconductors.
Fiz. tver. tela 5 no.10:3020-3022 O '63. (MIRA 16:11)

1. Chernovitskiy gosudarstvenny universitet.

FISTUL, V. I.; OMELYANOVSKIY, E. M.; ANDRIANOV, D. G.; DAKHOVSKIY, I. V.

"The scattering of electrons in heavily-doped germanium."

report submitted for Intl Conf on Physics of Semiconductors, Paris, 19-24 Jul 64.

L 10776-65 EWT(m)/EWP(b) IJP(c)/ESD(t)/ESD(gs)/ASD(a)-5/AS(mp)-2/SSD/APWL JD

ACCESSION NR: AP4044958 S/0181/64/006/009/2825/2830

AUTHORS: Andrianov, D. G.; Dakhovskiy, I. V.; Omel'yanovskiy, E. M.; Fistul', V. I.

TITLE: Anisotropic scattering of electrons in heavily doped germanium

SOURCE: Fizika tverdogo tela, v. 6, no. 9, 1964, 2825-2830

TOPIC TAGS: germanium, electron scattering, electron mobility, galvanomagnetic effect, impurity scattering, phonon scattering

ABSTRACT: Comparison of the values of the electron mobility in heavily doped n-type germanium, determined by Fistul', Iglitsyn, Omel'yanovskiy, and Andriyanov (FTT, 4, 1065, 1370, 1962; 6, 470, 1964), with the theory of scattering by acoustical phonons and ionized impurities has failed to give even qualitative agreement. The present paper compares the theory of the anisotropic scattering

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with the galvanomagnetic effect data (reference as above) for As-doped n-type germanium obtained for a wide range of impurity concentrations and temperatures. Expressions are obtained for the components of the relaxation time tensor in the case of scattering from impurity ions in general. It is shown that the electron scattering in heavily doped germanium is basically anisotropic and that the components of the effective mass tensor are independent of the impurity concentration and temperature. "The authors thank Prof. A. G. Samoylovich for discussing the results and for advice." Orig. art. has: 2 figures, and 9 formulas.

ASSOCIATION: Gosudarstvenny*y nauchno-issledovatel'skiy i proyektnyy institut redkometallicheskoy prom*shlennosti, Moscow (State Scientific-Research and Design Institute of the Rare-Metal Industry)

SUBMITTED: 20Jan64 ENCL: 00
SUB CODE: SS NR REF SOV: 010 OTHER: 003

L 11264-65 EWT(m)/EWP(t)/EWP(b) LIP(c)/AS(mp)-2/SSD/APWL/ESD(gs)/ESD(t) JD

ACCESSION NR: AP4046625 S/0181/64/006/010/3089/3091

AUTHORS: Baranskiy, P. I.; Dakhovskiy, I. V.; Kurilo, P. M. B

TITLE: Concentration dependence of the anisotropy of the Hall coefficient in n-germanium

SOURCE: Fizika tverdogo tela, v. 6, no. 10, 1964, 3089-3091

TOPIC TAGS: Hall coefficient, anisotropy, impurity concentration, germanium

ABSTRACT: The anisotropy of the Hall coefficient was investigated in n-germanium samples having two different crystallographic orientations, at room temperature and at magnetic fields $8 \times 10^5 \leq H \leq 2 \times 10^7$ A/m. In addition, in order to be able to control the impurity scattering in a more direct fashion (by changing the concentration of the scattering centers rather than the temperature), the dependence of the anisotropy of the Hall coefficient on the concentration was investigated in the concentration range $6.8 \times 10^{13} \leq$

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L 11261-65

ACCESSION NR: AP4046615 2

$\leq n_e \leq 2.1 \times 10^{18}$ cm^{-3} under the same conditions. The two crystallographic orientations were H‖ [001], I‖ [110] and H‖ [110], I‖ [110]. Each pair of samples with two different orientations was made from a separate ingot, the ingots differing by the impurity concentration. The investigation procedure was essentially the same as used by two of the authors earlier (Baranskiy and Kurilo, FTT v. 6, 54, 1964). An analysis of the results shows them to be in good agreement with the theory of anisotropic scattering, developed in detail by A. G. Samoylovich, E. Ya. Korenblit, I. V. Dakhovskiy, and V. D. Iskra (FTT v. 3, 2939 and 3285, 1961; v. 4, 168, 1962; v. 6, 2032, 1964), and therefore can serve as an additional (and independent) experimental verification of this theory. "The authors are deeply grateful to Professor A. G. Samoylovich and Doctor of Physical-Mathematical Sciences Ye. G. Miselyuk for a detailed and very valuable discussion of the results." Orig. art. has: 3 formulas and 1 figure.

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L 11264-65
ACCESSION NR: AP4046625

ASSOCIATION: Institut poluprovodnikov AN UkrSSR, Kiev (Institute of Semiconductors, AN UkrSSR)

SUBMITTED: 11May64 ENCL: 00

SUB CODE: SS NR REF SOV: 005 OTHER: 004

Card 3/3

L 15270-65 EWT(m)/EWP(t)/EWP(b) IJP(c)/AFWL/ASD(a)-5/SSD/AS(mp)-2/ESD(t) JD

ACCESSION NR: AP4048437 S/0181/64/006/011/3479/3481

AUTHORS: Dakhovskiy, I. V.; Mikhay, Ye. F.

TITLE: Calculation of the anisotropy parameter in n-Si

SOURCE: Fizika tverdogo tela, v. 6, no. 11, 1964, 3479-3481

TOPIC TAGS: silicon, carrier mobility, anisotropy, carrier density, galvanomagnetic effect, thermomagnetic effect

ABSTRACT: This is similar to an earlier calculation by one of the authors (Dakhovskiy, FTT v. 5, 2332, 1963) of the anisotropy parameter for n-Ge. Comparison with the experimental results of L. J. Neuringer and H. Y. I. Little (Rept. Internat. Conf. Phys. Semiconductors, Exter, London, 1962; Inst. Phys. and Phys. Soc., 614, 1962) shows good agreement. It is noted that the value of the anisotropy coefficient enters into expressions for the galvanomagnetic and thermomagnetic coefficients, and therefore its exact theoretical

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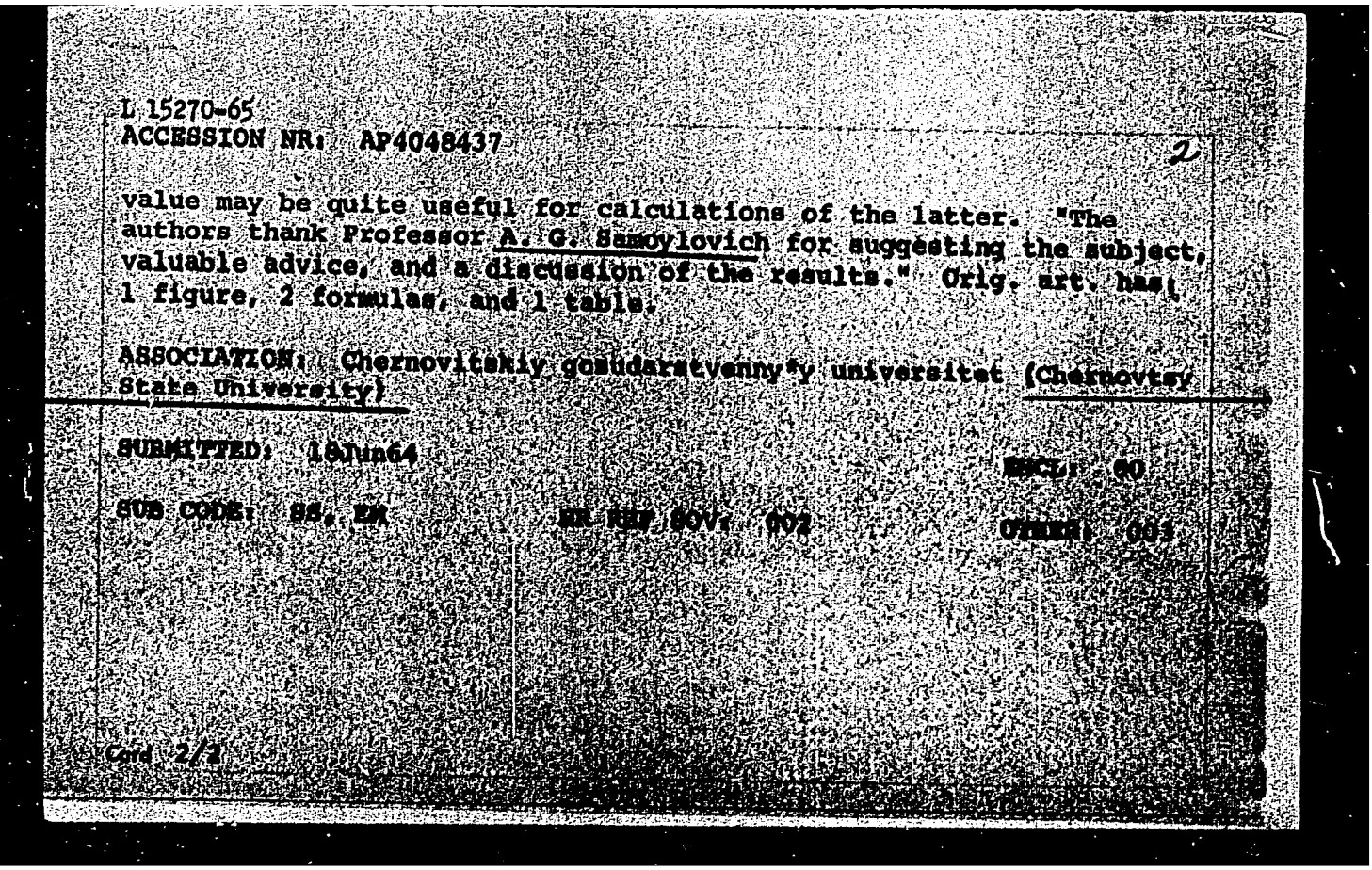

L 15270-65
ACCESSION NR: AP4048437

2

value may be quite useful for calculations of the latter. "The authors thank Professor A. G. Samoylovich for suggesting the subject, valuable advice, and a discussion of the results." Orig. art. has: 1 figure, 2 formulas, and 1 table.

ASSOCIATION: Chernovitskiy gosudarstvenny*y universitet (Chernovtsy State University)

SUBMITTED: 18Jun64 ENCL: 00

SUB CODE: GE, EM NR REF SOV: 002 OTHER: 001

Card 2/2

L 45420-66 EWP(t)/ETI IJP(c) JD

ACC NR: AP6026375 (A) SOURCE CODE: GE/0030/66/015/001/0057/0061 (UR) 46 43 B

AUTHOR: Baranskii, P. I.; Dakhovskii, I. V.

ORG: Institute of Semiconductors, Academy of Sciences of the Ukrainian SSR, Kiev; State University of Chernovtsy, Ukrainian SSR, Chernovtsy

TITLE: Longitudinal Hall effect in n-type germanium

SOURCE: Physica status solidi, v. 15, no. 1, 1966, 57-61

TOPIC TAGS: Hall effect, anisotropic scattering, germanium

ABSTRACT: On the basis of the anisotropic scattering theory developed by Samoylovich et al. (A. G. Samovlovich, I. Ya. Korenblit, I. V. Dakhovskiy, and V. D. Iskra, Fiz. tverd. Tela 3, 2939 and 3285 (1961)) a general expression is derived for the longitudinal Hall effect in which the carrier relaxation time is represented by a tensor. A possible method of measuring the longitudinal Hall effect in absolute (rather than relative) units is proposed. This allows experimental investigation (at room temperature) of the effect for n-type Ge with $\rho \approx 10^{-1}$ ohm.cm. A special case is considered in which the current in the sample is in the [100]

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direction and the magnetic field vector H is arbitrarily oriented in the plane perpendicular to the current flow. Good agreement is obtained between theory and experiment. Some suggestions are made as to possible applications of this effect. The authors thank Prof. A. G. Samoylovich for valuable advice and comments on the theoretical part of this work. They also thank Prof. E. G. Miselyuk for his interest and discussion of the work and W. W. Gayduchenko for his assistance in the experiments. Orig. art. has: 5 figures and 4 formulas. [Authors' abstract] [KS]

SUB CODE: 20/ SUBM DATE: 10Feb66/ ORIG REF: 002/ OTH REF: 001/

DAKHSHLEGER, A.V., referent.

Reference notes: hay spreader, pneumatic drill, "Hamster" rake, feed steaming apparatus, milking machine with a filter, vibrating harrow, tractor-mounted mower with hydraulic drive. Sel'khoz-mashina no.6:29-31 Je '57. (MLRA 10:7)
(Agricultural machinery)

DAKHSHLEGER, A.V.

Strip spraying of corn (form "Deutsche Agrartechnik," no.3, 1961). Zashch. rast. ot vred. i bol. 7 no.7:56 Jl '62. (MIRA 15:11)

(Germany, East—(Maize)
(Germany, East—Weed control)

DAKHSHLEYGER, G.F.

[The Turkmenistan-Siberia Railroad, first-born of socialist industrialization; historical outline of the Turkmenistan-Siberia Railroad] Turksib - pervenets sotsialisticheskoi industrializatsii; ocherk isto·ii postroiki Turksiba. Alma-Ata, Akademiia nauk Kazakhskoi SSSR, 1953. 131 p. (MLRA 7:12)
(Siberia--Railroads)

DAKHSHLEYGER, O., kandidat istoricheskikh nauk.

The role of socialist industrialization of the U.S.S.R. in the transition of the Kazakh people to socialism, bypassing capitalism. Vest.AN Kazakh SSR 10 no.2:33-48 F '53. (MLRA 7:4)
(Kazakhstan--Economic conditions)