EFENDIZADE, A.A.; LISTENGARTEN, B.A.

Static characteristics of an asynchronous electric drive with nonsymmetric supply voltage. Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekh. nauk no.5:101-107 '63. (MIRA 17:3)

EFENDIZADE, A.A.; LISTENGARTEN, B.A.

Investigation of the performance of an electric drill fed by a system of two conductor-pipes. Izv. vys. ucheb. zav.; neft' i gaz 6 no.10:93-96 '63. (MIRA 17:3)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova i Energeticheskiy institut im. I.G.Yes'mana.

EFENDIZADE, A.A.; LISTENGARTEN, B.A.; FRADKIN, A.B.

Investigating the operation of an electric drill with sweep-frequency voltage power supply. Neft.khoz. 41 no. 1: 23-28 Ja '63. (MIRA 17:7)

KADYMOV, Ya.B.; LISTENGARTEN, B.A.

Calculating the elongation of rods in the period of initial deformation. Neft. khoz. 42 no.3:38-41 Mr '64. (MIRA 17:7)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930120012-3

ACCESSION NR: AP4035073 S/0103/64/025/004/0484/0491

AUTHOR: Kady*mov, Ya. B. (Baku); Listengarten, B. A. (Baku)

TITLE: Approximate method of calculating transient processes in automatic-control systems containing distributed-parameter elements

SOURCE: Avtomatika i telemekhanika, v. 25, no. 4, 1964, 484-491

TOPIC TAGS: automatic control, automatic control transient process, distributed parameter automatic control, sampled data automatic control

ABSTRACT: Transient processes in electric-drive systems and in automatic-control systems are theoretically studied by regarding the distributed-parameter elements of such systems as sampled-data closed-loop systems. An equation describing the motion of a long-shaft electric drive is converted into a discrete equation by establishing a relation between the operator p and the discrete

ACCESSION NR: AP4035073

the independent variable. T is set at $T = \frac{2\tau}{\lambda}$, where τ is the time of wave propagation and λ is any integer. Formulas suitable for numerical computations (on an adding machine or a computer) are developed. The error is lower for higher λ. Orig. art. has: 40 formulas and 1 table.

ASSOCIATION: none

SUBMITTED: 17Nov62 DATE ACQ: 26May64 ENCL: 00

SUB CODE: IE NO REF SOV: 004 OTHER: 000

Card 2/2

LISTENGARTEN, B.M.; TER-OGANESOVA, A.G.

Determining reservoir rock permeability on the basis of the study of water influx of wells. Azerb.neft.khoz. 35 no.5:6-8 My '56. (MLRA 9:10)

(Permeability) (Oil field flooding)

AMBARTSUMYAN, A.P.; BRISK, M.I.; LISTENGARTEN, B.M.; PIRVERDYAN, A.M.

Effect of petroleum viscosity on the effectiveness of flooding. Azerb.neft.khoz. 35 no.7:18-22 Jl '56. (MLRA 9:12)
(Oil field flooding)

AMBARTSUMYAN, A.P.; BRISK, M.I.; LISTENGARTEN, B.M.; PIRVERDYAN, A.M.

Effect of petroleum viscosity on the effectiveness of water flooding. Azerb.neft.khoz. 35 no.8:19-22 Ag '56. (MLRA 9:10)

(Oil field flooding)

LISTENGARTEN, B.M.

EYVAZOV, E.G.; OVNATANOV, S.T.; LISTENGARTEN, B.M.

Book by A.G. Aliev, L.V. Minzberg, L.A. Nikolaeva ("Collecting properties of Kirmaki series rocks of the Apsheron Peninsula.". Reviewed by E.G. Eivazov, S.T. Ovnatanov, B.M. Listengarten). Azerb.neft.khoz. 36 no.7:48 Jl '57. (MIRA 10:10)
(Apsheron Peninsula--Petroleum geology)
(Aliev, A.G.) (Minzberg, L.V.) (Nikolaeva, L.A.)

MELIK-ASLANOV, L.S.; LISTENGARTEN, B.M.; AMBARTSUMYAN, A.P.

Consolidating areas of exploitation and widening filters used in fields of the Kirmaki series. Azerb. neft. khoz. 37 no.5:24-26 My '58. (MIRA 11:8)

(Apsheron Peninsula--Filters and filtration)

AKSEL'ROD, S.M.; GADZHI-KASIMOV, A.S.; LISTENGARTEN, B.M.; PUTKARADZE, L.A.

Using the induced sodium activity method for determining the water-oil contact in the Balakhan'-Sabunchi-Ramany field (Oil Field Administration of the Lenin Petroleum Trust). Azerb.neft.khoz. 38 no.11:11-12 N '59. (MIRA 13:5)
(Apsheron Peninsula--Oil well logging, Radiation)

ZEYNALLY, M.I.; LISTENGARTEN, B.M.; AMBARTSUMYAN, A.P.; GUKASOVA, Ye.K.

Effectiveness of production methods used in the exploitation of the Kirmaki series in fields of the Oil Field Administration of the Lenin Petroleum Trust. Azerb. neft. khoz. 39 no.7:20-22 Jl '60. (MIRA 13:10)

(Caucasus, Northern--Oil fields--Production methods)

ABRAMYAN, S.L.; AKSEL'ROD, S.M.; ALEKSEYEV, E.A.; AL'TSHEL', S.A. [deceased], BESPALOV, D.F.; GADZHI-KASIMOV, A.S.; ZHILIN, K.A.; LISTENGARTEN, B.M.; ODINOKOV, V.P.; PUTKARADZE, L.A.; SHIMELEVICH, Yu.S.

Neutron-neutron pulse method for investigating wells and results of its use in the Balakhan'-Sabunchi-Ramany field. Azerb. neft. khoz. 39 no.11:9-13 N '60. (MIRA 13:12)
(Apsheron Peninsula—Oil well logging, Radiation)

LISTENGARTEN, Boris Moiseyevich; AKSEL'ROD, S.M., red.; SHTEYNGEL', A.S., red.; MINKISHEVA, S., tekhn. red.

[Practice of the Oil Field Administration of the Lenin Petroleum Trust in using radioactive methods in oil-field geology] Radioaktivnye metody v neftepromyslovoi geologii; opyt NPU "Leninneft'". Baku, Azerbaidzhanskoe gos. izd-vo, 1961. 150 p. (MIRA 15:2)
(Azerbaijan--Oil well logging, Radiation)

LISTENGARTEN, B.M.

Distortion of gamma-ray logging curves resulting from lost circulation. Azerb. neft. khoz. 40 no.1:11-12 Ja '61. (MIRA 14:8)

(Apsheron Peninsula—Oil well logging, Radiation)
(Oil well drilling fluids)

ALIBEKOV, B.I.; LIBTENGARTEN, B.M.; SAPOZHOK, V.M.; AMIROV, A.D.; spets. red.; RASHEVSKAYA, T.A., red.

[Petroleum production by the open method; based on a study of the Kirmaku Oil Field] Dobycha nefti otkrytym sposobom; na primere mestorozhdeniia Kirmaku. Baku, Azerneshr, 1964. 122 p. (MIRA 17:12)

SAMEDOV, F.I.; LISTENGARTEN, B.M.; SULTANOV, Ch.A.

Coefficient of the gas discharge of gas and gas-condensate pools in Azerbaijan. Izv. AN Azerb. SSR. Ser. geol-geog. nauk no.4:67-73 '64. (MIRA 17:12)

SAMEDOV, F.I.; ANDRIANOV, S.I.; LISTENGARTEN, B.M.; SULTANOV, Ch.A.

Effect of well flooding on the ultimate gas-recovery factor in the upper sector of the Sub-Kirmaki region of Zyrya. Gaz. prom. 9 no.1:5-8 '64. (MIRA 17:12)

ERLIKH, G.M.; VARTANOVA, N.A.; LISTGARTEN, B.M.

Field tests of high-strength drill pipes and casing. Burenie no.11:28-29 '64. (MIRA 12:5)

1. AzNIIburneft' i Azerbaydzhanskiy nauchno-issledovatel'skiy institut neftyanogo mashinostroyeniya.

GADZHI-KASUMOV, A.S.; KREYNIN, Ye.F.; LISTENGARTEN, B.M.; EYVAZOV, E.G.

Decrease in the specific gravity of petroleum in the process of oil field development. Geol. nefti i gaza 9 no.4:57-59 Ap '65. (MIRA 18:8)

1. Neftepromyslovoye upravleniye Kirovneft'.

SAMEDOV, F.I.; LISTENGARTEN, B.M.; SULTANOV, Ch.A.

Recovery factor of gas-condensate oil pool in horizons VII of the Karadag area. Izv. AN Azerb. SSR. Ser. geol.-geog. nauk no.3:72-77 '65. (MIRA 18:9)

LISTENGARTEN, B.M.; SOZINA, V.S.; KONDRUSHKIN, Yu.M.

Recovery factor of the oil pool of the Sub-Kirmaki series in the eastern part of the Ramany area in the Balakhany-Sabunchi-Ramany field. Neft. khoz. 43 no.8:18-22 Ag '65. (MIRA 18:12)

LISTENGARTEN, G.A.

Erythromyelosis (Di Guglielmo's syndrome) as one of the rare forms of acute leukemia. Trudy TSIU 62:346-356 '63.

(MIRA 18:3)

1. III kafedra terapii (zav. chlen-korrespondent AMN SSSR prof. I.A.Kassirskiy) TSentral'nogo instituta usovershenstvovaniya vrachey.

LISTENGARTEN, G.A.

Clinical forms and hematological variants of erythromyelosis. Probl.gemat.i perel.krovi no.7:36-41 '61. (MIRA 14:9)

1. Iz kafedry terapii (zav. - chlen-korrespondent AMN SSSR prof. I.A. Kassirskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey.
(HEMOPOIETIC SYSTEM--DISEASES)

LISTENGARTEN, G.A.

Current views on erythromyelosis (Di Guglielmo's syndrome); review of the literature. Probl.gemat.i perel.krovi no.2: 28-33 '62. (MIRA 15:1)

1. Iz 3-y kafedry terapii (zav. - chlen-korrespondent AMN SSSR prof. I.A. Kassirskiy) TSentral'nogo instituta usovershenstvovaniya vrachey.
(HEMOPOIETIC SYSTEM--DISEASES)

LISTENGARTEN, G.A.

Hemolytic syndrome in erythromyelosis. Vop.biofiz.,biokhim.i pat.erit. no.2:270-279 '61. (MIRA 16:3)

1. Iz III kafedry terapii (zav. - chlen-korrespondent AMN SSSR prof. I.A. Kassirskiy) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. - M.D. Kovrigina).
(HEMOPOIETIC SYSTEM--DISEASES)

LISTENGARTEN, G.A.

Diagnosis and differential d.agnosis of erythromyelosis (Di Guglielmo's syndrome). Probl. gemat. i perel. krovi no.10: 23-27 '62. (MIRA 17:12)

1. Iz 3-y kafedry terapii (zav. - chlen-korrespondent AMN SSSR prof. I.A. Kassirskiy) TSentral'nogo instituta usovershenstvovaniya vrachey (direktor M.D. Kovrigina).

BAGIYEV, A.D.; LISTENGARTEN, L.B.; SOZINA, V.S.

Recent data on the oil potential of the Surakhany series in the Balakhan'-Sabunchi-Ramany field. Azerb. neft. khoz. 40 no.10: 4-6 O '61. (MIRA 15:3)

(Apsheron Peninsula--Petroleum geology)

LISTENGARTEN, L.B.

Designing the shaft of a sinking centrifugal electric pump. Izv. vys. ucheb. zav.; neft' i gaz 7 no.7:76 '64. (MIRA 17:9)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.

ALIBEKOV, B.I.; LISTENGARTEN, L.B.; PIRVERDYAN, A.M.

Pouring degassed liquid to combat the harmful effect of gas on the operation of a sinking centrifugal electric pump. Izv. vys. ucheb. zav.; neft' i gaz 6 no.8:51-55 '63. (MIRA 17:6)

1. Azerbaydzhanskiy institut nefti i khimii imeni M. Azizbekova, Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti i neftepromyslovoye upravleniye "Leninneft'."

ALIBEKOV, B.I.; LISTENGARTEN, L.B.; CHUBANOV, O.V.

Experimental investigation of a sinking electrocentrifugal pump operating on air-water mixtures. Izv.vys.ucheb.zav.; neft' i gaz 6 no.11:117-120 '63. (MIRA 17:9)

L 26461-66

ACC NR: AP6017380 SOURCE CODE: UR/0230/65/000/011/0017/0019

AUTHOR: Abdulragimov, A. I. (Engineer); Vlasov, S. N. (Engineer); Pirverdyan, A. M. (Doctor of technical sciences); Shvarts, Ya. A. (Doctor of technical sciences); Listengarten, L. B. (Engineer); Yakubov, Yu. G. (Engineer)

ORG: [Abdulragimov, Vlasov] Baktonnel'stroy; [Pirverdyan, Shvarts, Listengarten] AzNIL DN; [Yakubov] Bakmetroproyekt

TITLE: Construction of tunnels in soils with high hydrostatic pressure

SOURCE: Transportnoye stroitel'stvo, no. 11, 1965, 17-19

TOPIC TAGS: railway tunnel, construction, hydrostatic pressure

ABSTRACT: Part of the Baku subway system had to be passed through fine-grained sandy loam with underground water pressure of over 4 atm. Experiments showed that continuous out-pumping could lower the water table somewhat in the area of the operations. After analysing several plans, it was decided that 43 wells would be dug, 27 in an outer ring, 16 in an inner ring, to lower the water pressure in the work area; as the tunnel was dug under compressed air, the wells were systematically checked and freed of filtered air. The pressure in the work tunnels was 1.5-1.7 atm. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 13 / SUBM DATE: none

Card 1/1

ABDULRAGIMOV, A.I., inzh.; VLASOV, S.N., inzh.; PIRVERDYAN, A.M., doktor tekhn. nauk; SHVARTS, Ya.A., doktor tekhn. nauk; LISTENGARTEN, L.B., inzh.; YAKUBOV, Yu.G., inzh.

Practices in building tunnels in soil with great hydrostatic pressure. Transp. stroi. 15 no.11:17-19 N '65. (MIRA 18:11)

1. Baktonnel'stroy (for Abdulragimov, Vlasov). 2. Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti (for Pirverdyan, Shvarts, Listengarten). 3. Bakmetroproyekt (for Yakubov).

LISTENGARTEN, M. A.

USSR/Nuclear Physics - Internal Conversion Jan 52

"Internal Conversion of Magnetic Dipole Radiation on the L_1-Shell Taking Into Account the Finite Size of the Nucleus," L. A. Sliv, M. A. Listengarten, Leningrad Phys-Tech Inst, Acad Sci USSR

"Zhur Eksper i Teoret Fiz" Vol XXII, No 1, pp 29-33

Calculates the coefr of conversion of magnetic dipole radiation of the L_1-shell taking into account the finite size of the nucleus. Presents results for Z = 83 graphically. Finds that the

204T81

USSR/Nuclear Physics - Internal Conversion (Contd) Jan 52

ratio of the coeffs of conversion, $B_K^{(1)}/B_{L_1}^{(1)}$, approximately equals 8.5. Analyzes the 3 gamma lines of RaC. Submitted 29 Mar 51.

204T81

558

INTERNAL CONVERSION IN L_1, L_2, L_3, AND M_1 AND M_2 SUBSHELLS OF ThC(Bi^{212}). E. M. Krivitskiy, G. D. Latyshev, M. A. Listengarten, L. A. Ostretsov, and A. G. Sergeev. (Gorkovskiy Politekhnicheskiy Inst. of Transportation). Izvest. Akad. Nauk S.S.S.R. Ser. Fiz. 20, 363-6(1956) Mar. (In Russian)

Conversion coefficients in L_1, L_2, L_3, and M_1, M_2 subshells of the ThC(Bi^{212}) nuclear γ transition at 239.9 kev were investigated, and measurements were made on the "ketran" spectrometer. To obtain more accurate results, an attempt was made to achieve complete separation of the corresponding conversion lines. A comparison of experimentally obtained rates L_1: L_2.L_3 with the theoretical ratios for γ transitions with hν = 239.9 kev in ThC(Bi^{212}) indicated that it is a purely dipole transition. The results showed the effectiveness of the method in determination of the multiplicity of γ radiations by the magnitudes of the L_1 L_2 L_3 ratio. (R.V.J.)

LISTENGARTEN, M.A.

KRISYUK, E.M.; VITMAN, A.D.; VOROB'YEV, V.D.; VOROB'YEV, I.V.; IL'IN, K.I.; LATYSHEV, G.D.; LISTENGARTEN, M.A.; SERGEYEV, A.G.

Internal conversion in the Pb^{208} atom in 2615 kev transitions. Izv.AN SSSR.Ser.fiz.20 no.8:883-890 Ag '56. (MLRA 9:12)

1. Kafedra fiziki Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta imeni V.N.Obraztsova.
(Lead--Isotopes)

sov/48-22-7-1/26

AUTHOR: Listengarten, M. A.

TITLE: Internal Conversion (Vnutrennyaya konversiya)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1958, Vol. 22, Nr 7, pp. 759-774 (USSR)

ABSTRACT: The author investigates to what extent the theory of internal conversion (IC) agrees with experiment, and how far theory and experiment have to be defined more precisely. In order to determine under what conditions the corrections to the internal conversion coefficients (ICC) can arise that are due to the details of nuclear structure, formula (1) for the ICC is first discussed. From this investigation the following basic conclusion can be drawn: an appreciable influence of nuclear structure upon the ICC can occur only if the corresponding γ-transition is very highly forbidden. For transitions with a normal lifetime, all earlier deductions made in reference 4 concerning the independence of the ICC from nuclear structure remain valid (in the range of 1-2 %). The attempts encountered in literature to attribute the differences between experimental and theoretical values of the ICC to the influence of nuclear structure, regardless whether the transi-

Card 1/4

tion under consideration being forbidden or permitted, are wrong. - The physical character of such an internal nuclear conversion is completely analogous to that of the 0 - 0 transitions: radiation transition is forbidden whereas the conversion transition taking place at the expense of the electron entering the interior of the nucleus is possible. Under these conditions details of nuclear structure highly influence the probability of a conversion transition. - Structure corrections of 15 - 20 % to the ICC values are to be expected for a forbiddenness not below 10^3. Apparently structure correction will be the more considerable the stronger the γ-transition is (the other conditions being equal). - With diminishing Z the role of the nuclear zone in the ICC becomes smaller. Therefore the order of γ-radiation forbiddenness required for an appreciable effect of the nuclear structure must grow rapidly. - The structure correction may vary greatly for the neighboring nuclei, and even for the various transitions in one and the same nucleus. - For the occurrence of structure corrections to the ICC, the exclusion of γ-radiation is by itself not sufficient. It is necessary that this exclusion be of no (or of much less) influence upon the radiation-free transition due to the nuclear

zone. - Furthermore it is shown that the influence of nuclear structure upon the ICC is on principle possible in ranges exceeding 1,5 - 2 %. However, its existence has not been established yet. - In computing the ICC, the method of allowance for the screening of the nuclear charge due to the atomic electrons was obtained as an important physical approximation. For heavy atoms the statistical model is a good approximation, giving extremely small errors. For light nuclei ($Z \lesssim 30$) with low energies $E_\gamma \lesssim 50$ keV the errors are 10-15 %. Next it is investigated how far the theoretical and experimental ICC values agree for some groups of nuclei. It is stated that the ratio of M/L depends very slightly on the energy, on the nuclear charge, and the multipole order, and that it is about 0,3 in all cases. Finally, after having stated that in general ICC measurements are very inaccurate and contradictory in a number of cases, the author acknowledges L. A. Sliv who made available to him some results concerning ICC calculations for the L shell even before publication, and discussed with him the paper under review. There are 7 figures, 5 tables, and 104 references, 20 of which are Soviet.

SOV/48-23-2-14/20

21(7)

AUTHORS: Listengarten, M. A., Band, I. M.

TITLE: On the Influence Exercised by Shielding Upon the Probability of E0 Conversion on K and L Shells in the Case of Low Energies (O vliyanii ekranirovaniya na veroyatnost' E0-konversii na K- i L-obolochkakh pri malykh energiyakh)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 2, pp 235-237 (USSR)

ABSTRACT: On the one hand, E0 conversion is closely connected with the nuclear structure, on the other hand it was shown that this conversion is possible not only in $0 \longrightarrow 0$ transitions but also in transitions between any levels with equal spin and parity (Refs 1-3). For the probability of the occurrence of E0 conversion on K-, L_I, L_{II} shells the expression

$W = \Omega(k,Z) \cdot Q^2$ with $\Omega(k,Z) = \frac{\alpha^2 \pi}{9} a_i^2 a_f^2 R_o^4$

is derived from a general formula for the probability of E0 conversion (α = fine-structure constant, a_i and a_f - amplitudes of the wave function of the electron, Q - nuclear

Card 1/3

On the Influence Exercised by Shielding Upon the Probability of EO Conversion on K and L Shells in the Case of Low Energies

part of the matrix element). Taking into account the finite nuclear dimensions and the shielding, the authors computed the wave function of the electron, amplitudes a_i and a_f as well as the function for conversion on K and L shells up to transition energies 5 kev above the threshold value. For the purpose of computing the wave function of the discrete and continuous spectrum the authors used the nuclear model of an equally charged ball and the statistical atomic model of Thoma-Fermi-Dirac (more accurate details are given in reference 7). It was shown that also in the case of low energies only a small influence is exercised by shielding upon the wave function and no corrections of the values computed by Church and Wenneser (Ref 2) can be given. For EO conversions which occur only on the L shell the calculated values of function $\Omega(k,Z)$ for $Z = 49, 61, 73, 84$ and 98 for low energies are listed in figure 1. According to figure 1, parameter ϱ may be obtained from the probability of an EO conversion on the L_I shell, which was determined by experiment. The authors thank L. A. Sliv and B. S. Dzhelepov for their interest in the paper.

Card 2/3

SOV/48-23-2-14/20

On the Influence Exercised by Shielding Upon the Probability of EO Conversions on K and L Shells in the Case of Low Energies

There are 2 figures and 9 references, 5 of which are Soviet.

ASSOCIATION: Leningradskiy gos. universitet im. A. A. Zhdanova
(Leningrad State University imeni A. A. Zhdanov)

Card 3/3

SOV/48-23-2-15/20

21(7)

AUTHORS: Voykhanskiy, M. Ye., Listengarten, M. A.

TITLE: On the Selection Rules of Conversion Transitions (O pravilakh otbora pri konversionnykh perekhodakh)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 2, pp 238-243 (USSR)

ABSTRACT: The conversion probability is determined by the sum of the internal and external matrix elements $\langle M_e \rangle$ and $\langle U_\gamma \rangle$. Both matrix elements are subject to various selection rules. If there is a selection rule according to which the probabilities of internal conversion are not influenced in the case of strong decrease of the probability of γ radiation and external conversion, the nucleus largely contributes to conversion and the CIC (coefficients of internal conversion) depend on the nuclear structure. Therefore, CIC measurements may indicate the nuclear structure. Also the problem of selection rules for conversions on forbidden transitions is connected herewith. In the present paper the selection rule is given in a general form for transitions of any multipole order on the basis of asymptotic quantum numbers for the matrix

Card 1/3

On the Selection Rules of Conversion Transitions

elements of $\langle M_e \rangle$ internal conversion in nonspherical nuclei. In addition, the selection rule for electric conversion transitions is given more accurately than in reference 5, taking into account the complete term for the nuclear currents of transitions. The influence exercised by the nuclear structure upon the CIC is determined by the quantity of parameter $\lambda = \langle M_e \rangle / \langle U_\gamma \rangle$. In the case of a magnetic 2^l-pole radiation the CIC depend only on one parameter λ_1^o, in the case of electric multipoles they depend on $\lambda_1^{(+1)}$ and $\lambda_1^{(-1)}$. The obtained selection rules, with respect to the asymptotic quantum numbers, for the matrix elements of inner conversion in nonspherical nuclei are given in table 1 (electric multipole order) and table 2 (magnetic multipole order). For electric dipole conversions it was found that they differ from all other radiation and conversion transitions at small energies by their spin. There are 2 tables and 11 references, 4 of which are Soviet.

Card 2/3

SOV/48-23-2-15/20

On the Selection Rules of Conversion Transitions

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova
(Scientific Research Institute of Physics of Leningrad State University imeni A. A. Zhdanov)

Card 3/3

S/048/60/024/009/016/016/XX
B006/B060

AUTHOR: Lishengarten, M. A.

TITLE: The Auger Effect /9

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 9, pp. 1041-1075

TEXT: This is a reproduction of a very comprehensive synopsis submitted before the X Vsesoyuznoye soveshchaniye po yadernoy spektroskopii (10th All-Union Conference of Nuclear Spectroscopy) held in Moscow from January 19 to 27, 1960. After a description of the Auger effect, the author discusses the aims pursued by a study of this effect (determination of the spectral lines of Auger electrons, their energy, and relative intensities, determination of the absolute probability of the effect, etc). The first part deals with the classification of Auger electrons. The series of Auger electrons is specified according to the primary vacancy (e.g., L-series), and the group according to the two final vacancies (e.g., the K-series has the groups K-LL, K-MN, etc.). Each group then consists of individual lines differing by their electron

Card 1/4

energy. The lines are designated according to the state (i.e., according to quantum numbers) of the finally doubly-ionized atom. The choice of quantum numbers is dependent on whether relativistic effects or interaction of electrons (or holes) are taken into account. Hence, there are four possibilities of designation: 1) according to the j-j coupling, 2) in non-relativistic single-electron approximation, 3) in the limit case of LS-coupling, and 4) for intermediate coupling. For these four cases, but in a different succession, Table 1 gives a classification of the K-LL group of the Auger electrons. Part 2 of the article under consideration deals with the energies of Auger electrons. The K-LL group is first discussed in great detail, and the energy functions relative to 9 lines are written. Table 2 gives for Z = 29, 32, 47, 62, 64, 74, 78, 79, 80, 83, 84, 93, and 94 a comparison of energy values determined experimentally with such obtained theoretically. Table 3 compares experimental and theoretical results for the relative position of lines of the K-LL group. The discussion is also extended to the lines of the K-LM group (Fig. 1), to the other groups of the K-series, and the L-series. Part 3 offers a survey of experimental and theoretical results relative to the intensities of groups and lines of Auger electrons. Table 4 collects data concerning the K-LL Augar transition probabilities, and Table 5 data on the

experimentally determined relative intensities of the lines of the K-LL group. The mean values of the latter are compiled in Table 6. Table 7 gives an experimental and theoretical comparison of the relative intensities of the lines of the K-LL group. The relative intensities of the lines of the K-LL and K-LM groups calculated in intermediate coupling approximation are specified in Table 8, experimental and theoretical results of a-determination of relative intensities of the lines of the K-LX group in Table 9, the results relative to the groups of the K-series in Table 10, the mean values of the relative intensities of the lines of the K-LX group in Table 11, and those of the L-XY group (X, Y $\neq$ K, L) in Table 12. Part 4 deals with the K-fluorescence yield. Table 14 gives an experimental-theoretical comparison, Table 15 the values obtained semi-empirically, Table 16 averaged relative values. Part 5 briefly deals with the Koster-Kronig transitions (Table 17), Part 6 with the L-fluorescence yield (Tables 18-22), and Part 7 with that of the M-shell. A. A. Konstantinov and E. M. Krisyuk, V. Mokhov, and M. Urin are mentioned. There are 6 figures, 24 tables, and 116 references: 15 Soviet, 7 Canadian, 10 British, 42 US, 7 Dutch, 5 German,

The Auger Effect

S/048/60/024/009/016/016/XX
B006/B060

12 French, 4 Italian, 2 Japanese, 2 Swiss, and 7 Swedish.

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova (Scientific Research Institute of Physics of Leningrad State University imeni A. A. Zhdanov)

Card 4/4

LISTENGARTEN, M.A.

SOV/5914

PHASE I BOOK EXPLOITATION

Akademiya nauk SSSR. Fiziko-tekhnicheskiy institut im. A. F. Ioffe

Gamma-luchi (Gamma Rays) Moscow, Izd-vo AN SSSR, 1961. 720 p.
Errata slip inserted. 3300 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Fiziko-tekhnicheskiy institut im. A. F. Ioffe.

Resp. Ed.: L. A. Sliv, Doctor of Physics and Mathematics; Ed. of Publishing House: N. K. Zaychik; Tech. Ed.: A. V. Smirnova.

PURPOSE: This book is intended for theoretical and experimental physicists working in the field of nuclear spectroscopy and in related fields where gamma rays are utilized. It may also be useful to advanced students of physics.

COVERAGE: The book, representing a symposium of papers whose authors are specialists in their areas, attempts to provide the fullest possible coverage of theoretical and experimental methods of

Card 1/

determining nuclear gamma-radiation characteristics and the use of gamma rays to study matter, particularly nuclear structure. The book contains a large number of tables, graphs, and nomographs and can be used as an encyclopedical manual on gamma rays. No personalities are mentioned. References accompany each part.

TABLE OF CONTENTS [Abridged]:

S/058/62/000/007/022/068
A061/A101

AUTHOR: Listengarten, M. A.

TITLE: Internal conversion of gamma rays

PERIODICAL: Referativnyy zhurnal, Fizika, no. 7, 1962, 27, abstract 7B218 (In collection: "Gamma-luchi". Moscow-Leningrad, AN SSSR, 1961, 271 - 507)

TEXT: This is a review of the present state of the internal conversion theory of gamma rays. The detailed derivation of formulas for the internal conversion coefficient is given. It takes account of the effect of nuclear finite dimensions and shielding. Circumstantial tables, obtained by Sliv and Band for the internal conversion coefficient on K and L shells, are given in an appendix.

V. Gorshkov

[Abstracter's note: Complete translation]

Card 1/1

LISTENGARTEN, M.A.

Calculating the probability of the Auger effect. Izv. AN SSSR. Ser. fiz. 25 no.7:792-798 Jl '61. (MIRA 14:7)

1. nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta im. A.A. Zhdanova.
(Auger effect)

LISTENGARTEN, M. A.

Effect of the nuclear structure on the internal conversion factors of γ-rays. Izv. AN SSSR. Ser. fiz. 26 no.12:1452-1458 D '62. (MIRA 16:1)

(Internal conversion(Nuclear physics))
(Photonuclear reactions)
(Gamma rays)

LISTENGARTEN, M.A.

Study of two-quantum transitions of nuclei. Vest. LGU 17 no.16:142-143 '62. (MIRA 15:9)
(Quantum theory)

3h168
S/048/62/026/002/002/032
B104/B102

24.6820

AUTHOR: Listengarten, M. A.

TITLE: Calculation of the Auger effect probability for heavy nuclei

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 2, 1962, 182-190

TEXT: In previous papers the author has studied the Auger effect theory and calculated the probability of an Auger effect for the atomic number Z = 81. The probabilities for Auger transitions of the K - LL group are calculated for Z = 65 - 92 by the same methods. The expressions used are defined in the afore-mentioned papers. A general formula for the probability of an Auger effect, which is correct for any Auger transition, is derived on the basis of the relativistic theory of retarded interaction of two electrons with jj coupling. The absolute and relative transition probabilities of the most intense lines of the Auger K series show a much better agreement with experimental data for heavy nuclei than those obtained in nonrelativistic approximation. The nonrelativistic theory is open to

Card 1/1 2

a big error, particularly at Z = 92 -94. The problem was posed by L. A. Sliv, and partly studied at the Fiziko-teknicheskiy institut (Physico-technical Institute). Computations were made by O. K. Daugavet and Ye. F. Ozerova. B. S. Dzhelepov is thanked for interest. There are 6 tables and 22 references: 8 Soviet and 14 non-Soviet. The four most recent references to English-language publications read as follows: Graham R., Meritt J., Canad. J. Phys., 39, 1058 (1961). Ewan G., Meritt. S., Canad. J. Phys., 38, 324 (1960). Ewan G. et al., Canad. J. Phys., 38, 163 (1960). Asaad W. N., Proc. Roy. Soc., 249, 555 (1959).

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova (Scientific Research Institute of Physics of the Leningrad State University imeni A. A. Zhdanov)

Table 1. Calculated probabilities of K - LL Auger transitions per 10^3 atomic unit times. Legend: (1) Line; (2) nonrelativistic approximation; (3) relativistic approximation; (β) use of the hydrogen-like function with the Slater constant; (T - Φ) the Thomas - Fermi statistical poten-

S/048/62/026/012/001/016
B117/B186

AUTHOR: Listengarten, M. A.

TITLE: Effect of nuclear structure on γ-ray internal conversion coefficients

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 12, 1962, 1451-1458

TEXT: This is a review article of Western and Soviet work in the field specified in the title, supplementing previously published reviews (Izv. AN SSSR. Ser. fiz., 22, 759 (1958); "Gamma-luch" (Gamma-rays). Editor, L. A. Sliv., Izd. AN SSSR, M.-L., 1961; E. Church, J. Weneser, Ann. Rev. Nucl. Sci., 10, 193 (1960)). It deals primarily with work published in 1960 - 1961. The paper was presented at the 12th Annual Conference on Nuclear Spectroscopy held in Leningrad from January 26 to February 2, 1962. There are 2 figures, 3 tables, and 75 references.

Card 1/1

LISTENGARTEN, M.A.

Design of a β-spectrometer with double and twofold focusing at the angle $\pi\sqrt{2}$. Izv.AN SSSR.Ser.fiz. 27 no.2:290-294 F '63. (MIRA 16:2)

(Beta-ray spectrometer)

BAND, I. M.; LISTENGARTEN, M. A.

"Angular Correlations of Conversion Electrons."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

LGU, FTI (Leningrad State Univ, Physico Technical Inst)

BAND, I.M.; LISTENGARTEN, M. A.; FERESIN, A. P.

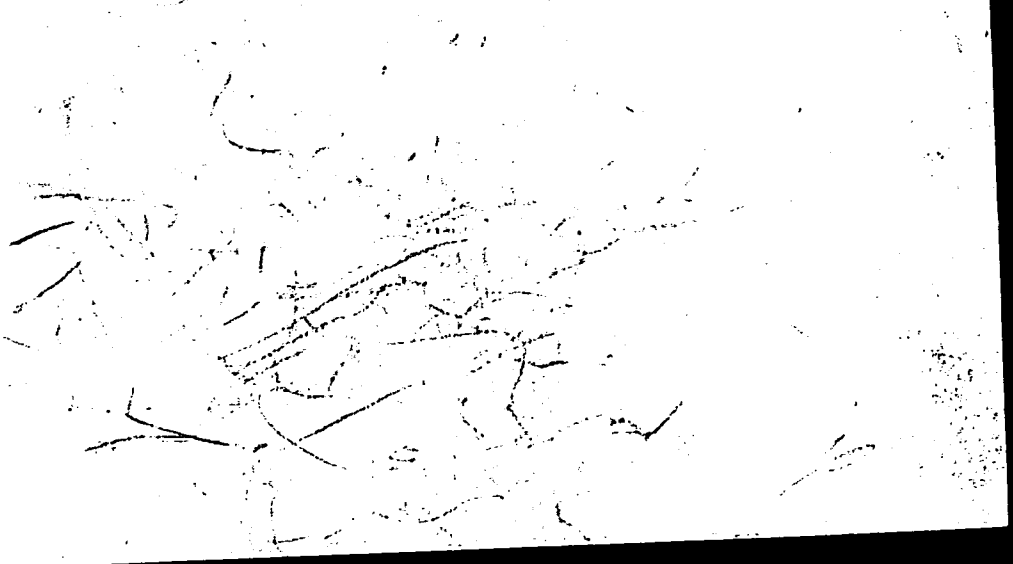
"Comparative Analysis of Tables of Internal Conversion Coefficients."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

LGU, FTI (Leningrad State Univ, Physico Technical Inst)

KRAFT, O.Ye., kand. fiziko-matematicheskikh nauk; LISTENGARTEN, M.A., kand. fiziko-matematicheskikh nauk

Recent research in nuclear spectroscopy; conference in Tiflis. Vest. AN SSSR 34 no.6:94-97 Je '64 (MIRA 17:8)



L 26948-65 EWT(1) IJP(c)

ACCESSION NR: AP5004570 S/0048/65/029/001/0102/0104

AUTHOR: Band, I.M.; Listengarten, M.A.; Sliv, L.A.

TITLE: Conversion matrix elements /Report, 14th Annual Conference on Nuclear Spectroscopy in Tbilisi 14-22 Feb 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.29, no.1, 1965, 102-104

TOPIC TAGS: internal conversion, Gamma radiation, conversion coefficient, conversion matrix

ABSTRACT: An internal conversion coefficient is expressed as the sum of the so-called partial coefficients pertaining to transitions of the electron to different final states of the energy continuum, characterized by the quantum number κ:

$$\alpha_q^{(\tau L)} = \sum_{\kappa} |M_\kappa|^2 \equiv \sum_{\kappa} |\mathrm{Re}\, M_\kappa + i\, \mathrm{Im}\, M_\kappa|^2.$$

Here $\alpha_q^{(\tau L)}$ is the conversion coefficient of type τ gamma-radiation (E = electric; M = magnetic) of multipole order L on the q-th shell or subshell, and $M_\kappa \equiv M_\kappa^{(\tau L)}$ is the partial conversion matrix element. These matrix elements are intermediate results in calculating internal conversion coefficients, but they also are of independent value and are used in solving other problems. In the present work there

1/2

L 26948-65

ACCESSION NR: AP5004530

4

were calculated and tabulated the M_κ for E1, E2, M1, and M2 transitions for the following values of the atomic number and transition energy $k = \hbar\omega/mc^2$: K-shell: Z = = 81, 84, 88, 92, $0.20 \leq K \leq 5.0$, L-shell: Z = 49, 53, 57, 61, 65, 69, 73, 77, 81, 84, 88, 92, 95, 98, $0.05 \leq K \leq 0.70$. The algebraic expressions used for the matrix elements are adduced. "The individual numerical values for the matrix elements for any k, Z and multipolarity, among those listed above, can be obtained from the authors. It will be possible to order photoprints or microfilms of the tables from the Institute of Scientific Information of the Academy of Sciences of the SSSR. The authors are grateful to N.B.Brovtsina, K.I.Golovan', L.I.Freiental' and F.I.Langelen, who participated in compilation of the tables." Orig.art.has: 21 formulas.

[02]

ASSOCIATION: none

SUBMITTED: 00/--Jan65 ENCL: 00 SUB CODE: GP, MA

NR SOV REF: 007 OTHER: 001 ATD PRESS: 318

2/2

L 32031-65 EWP(n) DIAAP

ACCESSION NR: AP5001051 S/0048/65/029/002/0258/0265

AUTHOR: Listengarten, M.A.; Feresin, A.P. 14

TITLE: The effect of nuclear structure on L shell internal conversion coefficients for hindered gamma transitions /Report, 14th Annual Conference on Nuclear Spectroscopy held in Tbilisi, 14-22 Feb 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.29, no.2, 1965, 258-265

TOPIC TAGS: internal conversion, nuclear structure, nuclear model, forbidden transition, internal conversion coefficient

ABSTRACT: Formulas are derived on the basis of earlier work (M.Ye.Voykhanskiy and M.A.Listengarten, Izv.AN SSSR, Ser.fiz.23,238,1959) with the aid of which internal conversion coefficients can be calculated using different nuclear models without repeating caculations of electronic radial wave function integrals. In these formulas the contributions of the nuclear convection currents and spin currents, for which the asymptotic selection rules differ, are kept separate. These formulas are employed to analyze the L shell internal conversion anomalies of the Pa^{231} 82.4 kev, the Np^{237} 26.4 kev, and the Np^{237} 60 kev tran-

Card 1/3

ACCESSION NR: AP5005951

sitions and to determine the relative contributions of the different nuclear processes. The results obtained for the Pa^{231} transition agree with those of R.L.Church and J.Wenesser (Nucl.Phys.28,602,1961), although these authors did not take into account the ordinary conversion matrix elements. This agreement is ascribed to the large magnitude of the anomaly. The formulas were also employed to calculate the difference between the L shell internal conversion coefficients predicted by the nonpenetrating electron model of Rose (M.E.Rose and T.A.Green,Phys.Rev.110,105, 1958) and the surface current model of Sliv (L.M.Band, M.A.Listengarten, and L.A. Sliv,Izv.AN SSSR,Ser.fiz.29,No.1,1965). Except for some M1 transitions, this difference was found to be of the order of 1% and thus insufficient to explain the difference between the internal conversion coefficient tables of L.A.Sliv and I.M.Band and those of M. E. Rose. The formulas derived in this paper can also be used to calculate the influence of nuclear structure on the angular correlation of conversion electrons. Tables of the pertinent coefficients for L shell conversion of transitions of three different multipolarities and for a wide range of atomic number and transition energy are promised for a future publication. "I.M. Band and [illegible]yukhov participated in the initial stage of this investigation. The results obtained were communicated in Reference 13 (Program and abstracts of reports of the 12th Annual Conference on Nuclear Spectroscopy, p. [illegible], M.-L., 1962.)." [02]

Orig. art. has: 7 formulas, 2 figures, and 4 tables.

Card 2/3

L 32031-65

ACCESSION NR: AP5005851

ASSOCIATION: none

SUBMITTED: 00	ENCL: 00	SUB CODE: NP
NO REF SOV: 006	OTHER: 007	ATD PRESS: 3199

Card 3/3

L 31624-65 EWT(m) Fab DIAAP

ACCESSION NR: AP5005953 S/0048/65/029/002/0268/0276

AUTHOR: Band, I.M.; Listengarten, M.A.

TITLE: Angular correlations of conversion electrons /Report, 14th Annual Conference on Nuclear Spectroscopy held in Tbilisi, 14-22 Feb 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.29, no.2, 1965, 268-276

TOPIC TAGS: internal conversion, angular correlation, multipolarity, screening effect, K band, L band, nuclear radius

ABSTRACT: The parameter b_2 in the conversion electron correlation function, tabulated for K-conversion by L.C.Biedenharn and M.E.Rose (Revs.Mod.Phys.85,5,1952) was calculated for L_I and L_{II} conversion with the aid of the matrix elements of I. M.Band, M.A.Listengarten and L.A.Sliv (Izv.AN SSSR,Ser.fiz.29, No.1, 1963) and the results are presented graphically. For the calculations an error of sign in the work of Biedenharn and Rose, pointed out by E.L.Church, A.Schwarzschild and J.Weneser (Phys.Rev.133,1335,1964), was corrected and the effects of screening and the finite nuclear radius were taken into account. The curves presented show the dependence of b_2 on transition energy for K, L_I and L_{II} conversion of M1, E1, E2 and

Card 1/2

L 13624-65
ACCESSION NR: AP5005953

M1 + E2 transitions. Data for K conversion are given for atomic numbers from 81 to 92 and data for L conversion for atomic numbers from 73 to 98. Accurate tables for an increased atomic number range and including L_{III} conversion and M2 and E1 + M2 transitions are promised for the future. The K conversion calculations show that the effect of screening and finite nuclear size is to increase the values of b_2 ... transitions by 20 to 40% over the values given by Biedenharn and Rose. "We ... grateful to Professor Venser (Wanser) for making available ... of the ... et al. prior to ..."

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: NP

NO REF SOV: 006 OTHER: ...

Card 2/2

L 29275-66 -EWT(1) IJP(c) AT

ACC NR: AP6019330 SOURCE CODE: UR/0367/66/003/003/0413/0418

AUTHOR: Listengarten, M. A.; Band, I. M.

ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet

TITLE: Calculations of the angular correlation parameters for conversion electrons

SOURCE: Yadernaya fizika, v. 3, no. 3, 1966, 413-418

TOPIC TAGS: conversion electron spectrum, electron transition.

ABSTRACT: The conversion electron angular correlation parameters were calculated for the L_I and L_{II} shells, for the atomic number in the region $49 \leqslant Z \leqslant 73$ and the transition energy $\hbar\omega / mc^2$ between 0.05 and 0.7. Screening and finite dimensions of the nucleus were taken into account. A method of extrapolating the parameters to lower Z and higher energies is given. The authors thank L. A. Sliv and D. Ye. Tun. Orig. art. has: 3 figures and 4 formulas. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 20 / SUBM DATE: 07Jul65 / ORIG REF: 007 / OTH REF: 004

Card 1/1 CC

L 06496-67 EWT(m)
ACC NR: AP7000460 SOURCE CODE: UR/0367/66/004/001/0066/0071

VOYNHANSKIY, M. Ye.; LISTENGARTEN, M. A.; FERESIN, A. P. 26 B

Problem of Penetration Effects in Internal Conversion" 16

Moscow, Yadernaya Fizika; July, 1966; pp 66-71

ABSTRACT: Anomalies in internal conversion coefficients are connected with the difference in the selection rules for γ'-transitions and conversion transitions, due to the penetration of an electron into the nucleus. In cases when the first terms in the expansion of the penetration conversion matrix elements are negligible, higher terms play a significant role, and selection rules with respect to asymptotic quantum numbers are obtained for them. Orig. art. has: 7 formulas and 1 table. [Based on authors' Eng. abst.] [JPRS: 37,330]

ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet)

TOPIC TAGS: gamma transition, nuclear physics

SUB CODE: 20 / SUBM DATE: 07Jul65 / ORIG REF: 014 / OTH REF: 012

Card 1/1 hlc

ABRAMOV, M.A.; ALIVERDIZADE, K.S.; AMIROV, Ye.M.; ARENSON, R.I.; ARSEN'YEV, S.I.; BAGDASAROV, R.M.; BAGDASAROV, G.A.; BADAMYANTS, A.A.; DANIYELYAN, G.N.; DZHAFAROV, A.A.; KAZAK, A.S.; KERCHENSKIY, M.M.; KONYUKHOV, S.I.; KRASNOBAYEV, A.V.; KURKOVSKIY, A.I.; LALAZAROV, G.S.; LARIONOV, Ye.P.; LISTENGARTEN, M.Ye.; LIVSHITS, B.L.; LISIKYAN, K.A.; LOGINOVSKIY, V.I.; LYSENKOVSKIY, P.S.; MOLCHANOV, G.V.; MAYDEL'MAN, N.M.; OKHON'KO, S.K.; ROMANIKHIN, V.A.; ROSIN, I.I.; RUSTAMOV, E.M.; SARKISOV, R.T.; SKRYPNIK, P.I.; SOBOLEV, N.A.; TARATUTA, R.N.; TVOROGOVA, L.M.; TER-GRIGORYAN, A.I.; USACHEV, V.I.; FAYN, B.P.; CHICHEROV, L.G.; SHAPIRO, Z.L.; SHEVCHUK, Yu.I.; TSUDIK, A.A.; ABUGOV, P.M., red.; MARTYNOVA, M.P., vedushchiy red.; DANIYELYAN, A.A.; TROFIMOV, A.V., tekhn.red.

[Oil field equipment; in six volumes] Neftianoe oborudovanie; v shesti tomakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vol.3. [Petroleum production equipment] Oborudovanie i instrument dlia dobychi nefti. 1960. 183 p. (MIRA 13:4)

(Oil fields--Equipment and supplies)

LISTENGARTEN, R.M.; SARUKHANOVA, N.A.

Characteristics of bitumens in Oligocene-Miocene sediments of Kobystan and the Caspian Sea region. Trudy AzNII DN no.4:317-322 '56. (MIRA 14:4)

(Caspian Sea region—Bitumen—Geology)

LISTENGARTEN, R.M.; KHATSKEVICH, N.I.

Comparing the composition of petroleums with the geochemical characteristics of enclosing sediments. Trudy AzNII DN no.9:30-36 '60. (MIRA 14:5)

(Petroleum--Analysis)
(Geochemical prospecting)

AKHMEDOV, G.A.; KHATSKEVICH, N.I.; LISTENGARTEN, R.M.; PAVLOVA, V.A.; SARUKHANOVA, N.A.

Possible oil-forming series in Cretaceous sediments of the Caspian-Kuba area. Trudy AzNII DN no.10:19-30 '60. (MIRA 14:4)
(Azerbaijan--Petroleum geology)

LISTENGARTEN, R.M.; SARUKHANOVA, N.A.

Characteristics of Mesozoic bitumens in the Caspian Sea region. (MIRA 14:4)
Trudy AzNII DN no.10:202-205 '60.
(Caspain Sea region--Bitumen)

LISTENGARTEN, T. A.

LISTENGARTEN, T. A.: "Material for the study of erythema nodosum in children". Baku, 1955. Azerbaydzhan State Medical Inst. (Dissertations for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya letopis', No. 52, 24 December, 1955. Moscow.

LISTENGARTEN, T. A. Cand Med Sci -- (diss) "Data for the study of nodose erythema (nodosa) in children." Baku, 1958. 18 pp (Azerbaydzhan State Med Inst im N. Narimanov), 200 copies (KL, 13-58, 100)

LISTENGARTEN, T.A.

Hemoglobinuric fever in children. Azerb. med. zhur. no.9:44-49 S '60. (MIRA 13:9)
(BLACKWATER FEVER)

LISTENGARTEN, Ye.L.

Possibility of production of experimental streptococcal angina. Vest. otorinolar., Moskva 15 no.4:44-46 July-Aug 1953. (CIML 25:1)

1. Candidate Medical Sciences. 2. Of the Department of Microbiology of Kuybyshev Medical Institute.

LISTENGURT, F.M.

On the Vitim Plateau. Geog. v shkole 20 no.3:15-20 My-Je '57.
(Vitim Plateau) (MLRA 10:6)

LISTENGURT, P. M., Cand GeogSci -- (diss) "The role of the economic and geographic situation in the historical development of the cities of Yaroslavl, Kalinin and Rybinsk," Moscow, 1960, 15 pp 120 cop. (Institute of Geography, AS USSR) (KL, 45-60, 123)

ALAMPIYEV, P.M.; VITYAZEVA, V.A.; LISTENGURT, F.M.; MAKSAKOVSKIY, V.P.; POKSHISHEVSKIY, V.V., prof.; SOLOV'YEVA, M.G., dotsent; LYALIKOV, N.I., dotsent, red.; ZAK, A.L., tekhn.red.

[Economic geography; toponymy. Collected articles] Ekonomicheskaia geografiia: Toponimika; sbornik statei. Moskva, 1960. 169 p. (MIRA 14:2)

1. Moscow. Moskovskiy gosudarstvennyy pedagogicheskiy institut. Geografo-biologicheskiy fakul'tet.
(Geography, Economic)
(Europe, Eastern--Names, Geographical)

ABRAMOVICH, A.D., kand. tekhn. nauk; ANTONOV, M.F., kand. tekhn. nauk; KAPLAN, G.A., inzh.-ekonomist; LEVIN, S.M., inzh.-zemleustroitel'; LISTENGURT, F.M., kand. geogr. nauk; SAMOYLOV, Ya.M., kand. tekhn. nauk; SMOLYAR, I.M., kand. arkhitek.; SOLOFNENKO, N.A., kand. arkht.; STERLIGOV, V.D., kand. arkht.; FALEYEV, V.G., inzh.; Prinimali uchastiye: BUTUZOVA, V.P.; GLABINA, N.K.; GOL'DSHTEYN, A.M.; DEMYANOVSKIY, V.S.; KAPLAN, G.L.; FEDOTOVA, N.A.; TSEYTLIN, G.I.; BURLAKOV, N.Ya., red.; KOMPANEYETS, Z.N., red. izd-va; GOLOVKINA, A.A., tekhn. red.

[Regional planning of economic administrative regions, industrial regions and centers; planning guide]Raionnaia planirovka ekonomicheskikh administrativnykh raionov, promyshlennykh raionov i uzlov; rukovodstvo po proektirovaniiu. Pod red.N.IA.Burlakova. Moskva, Gosstroiizdat, 1962. 266 p. (MIRA 15:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut gradostroitel'stva i raionnoi planirovki. 2. Zamestitel' direktora po nauchnoy rabote Nauchno-issledovatel'skogo instituta gradostroitel'stva i rayonnoy planirovki (for Burlakov). 3. Nauchno-issledovatel'skiy institut gradostroitel'stva i rayonnoy planirovki (for Butuzova, Glabina, Gol'dshteyn, Demyanovskiy, Kaplan, Fedotova, TSeytlin).

(Regional planning)

LISTENGURT, F.M.

Planning regions in the system of economic regionalization.
Izv. AN SSSR. Ser. geog. no.2:57-66 Mr-Ap '62. (MIRA 15:3)

1. Institut gradostroitel'stva i rayonnoy planirovki Akademii stroitel'stva i arkhitektury SSSR.
(Economic zoning)

LISTENGURT, F.M.

Discussing collection No.45 of "Voprosy geografii" in the Moscow Branch of the Geographic Society of the U.S.S.R. Vop. geog. no.56:192-194 '62. (MIRA 15:7)

(Cities and towns)

LISTENGURT, F.M.

Industrial complexes and their role in the territorial organization of production and distribution of population. Izv. AN SSSR. Ser.geog. no.1:50-57 Ja-F '63. (MIRA 16:2)

1. Nauchno-issledovatel'skiy institut gradostroitel'stva i rayonnoy planirovki Akademii stroitel'stva i arkhitektury SSSR.

(Industries, Location of)

LISTENGURT, F.M.

Industrial complexes and their importance in the organization of land production and distribution of population. Analele geol geogr 17 no.4:133-140 O-D '63.

LISTENGURT, F.M.; SMOLYAR, I.M.

Studying several prerequisites of the industrial development of small and medium-size cities in the Central Economic Region. Izv. AN SSSR Ser. geog. no.4:79-90 '64 (MIRA 17:8)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektnyy institut po gradostroitel'stvu.

LISTENGURT, F.M.

Prospects for the economic and territorial growth of the small and medium-size towns of the Central Economic Region. Izv. AN SSSR. Ser. geog. no.4:61-69 Jl-Ag '65. (MIRA 18:8)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektnyy institut po gradostroitel'stvu.

LISTENGURT, F.M.; SMOLYAR, I.M.

Defining the concepts of "small" and "medium-size" towns; materials on the study of towns of the Central Economic Region. Vest. Mosk. un. Ser. 5: Geog. 20 no.5:74-77 S-O '65. (MIRA 18:12)

LISTENGURT, M. A.

LISTENGURT, M. A. -- "The Mechanization of the Deep Application of Liquid Fumigants in the Soil." All-Union Order of Lenin Academy of Agricultural Sciences imeni V. I. Lenin. All-Union Sci Res Inst of Plant Conservation. Leningrad, 1955.
(Dissertation for the Degree of Candidate in Agricultural Sciences).

SO: Knizhnaya Letopis', No 9, 1956.

LISTENGURT, M.A.

USSR/General and Special Zoology. Insects. Injurious In- P
sects and Ticks. Pests of Fruit and Berry Crops

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49699

Author : Listengurt M.A.
Inst : All-Union Institute of Plant Protection, Moldavian Station
Title : Some Questions on Subsurface Soil Fumigation

Orig Pub : Sb. tr. Mold. st. Vses. in-ta zashchity rast., 1957, vyp. 2, 227-236

Abstract : An experimental machine for subsurface soil fumigation for the control of Rhyllioxera was developed and tested. The technological process was examined and defined moreprecisely (the formation of slits by rotarydrilling, introduction of the the chemical poisons by stages into the slits through a needle with a nozzle, used for drilling). The nozzle of spiral form or of the pointed drill

Card : 1/2

84

LISTENGURT, M.A., kand. sel'skokhozyaystvennykh nauk.

Selecting the device for measuring out chemicals or the deep fumigation of soils. Sel'khozmashina no.12:6-7 D '57. (MIRA 11:2)
(Soil disinfection)

LISTENGURT, M.A., kand.sel'skokhoz. nauk; BOLBOCHAN, Ye.K., inzh.

Machine for placing poisoned baits. Zashch. rast. ot vred. i bol. 5 no.4:20-21 Ap '60. (MIRA 13:9)
(Suslika--Extermination)

LISTENGURT, M.A., kand.sel'skokhoz.nauk; POLIVTSEV, F.P., kand.sel'skokhoz.nauk

FPTN-2,25 soil fumigator. Zashch. rast. ot vred. i bol. 5 no.9:12 S '60. (MIRA 15:6)

(Fumigation)
(Agricultural machinery)

DIBNER, Ye.E., red.; LISTENGURT, M.A., st.nauchn.sotr., kand.sel'khoz.nauk, red.; MEYSAKHOVICH, Ya.A., kand. sel'khoz. nauk, red.; TARASOVA, A.Yu., red.; FILIMONOV, S.I., red.; SHKORUPEYEV, I.S., red.; SHLYAKHOVOY, Ye.M., red.; SININA, V., red.; POLONSKIY, S., tekhn. red.

[Mechanization of work in plant protection]Mekhanizatsiia rabot po zashchite rastenii; sbornik trudov. Kishinev, Izd-vo sel'khoz. lit-ry, 1961. 187 p. (MIRA 16:2)

1. Nauchno-tekhnicheskoye soveshchaniye po voprosam konstruirovaniya mashin dlya zashchity plodovykh kul'tur i vinograda. Kishinev, 1960. 2. Predsedatel' Moldavskogo respublikanskogo pravleniya Nauchno-tekhnicheskogo obshchestva mashinostroitel'noy promyshlennosti, zamestitel' predsedatelya sovnarkhoza Moldavskoy SSR (for Shkorupeyev). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy (for Meysakhovich). 4. Moldavskaya stantsiya zashchity rasteniy (for Listengurt). 5. Zamestitel' nachal'nika Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po mashinam dlya mekhanizatsii rabot v sadakh i na vinogradnikakh (for Dibner). 6. Nachal'nik laboratorii ispytaniy mashin Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po mashinam dlya mekhanizatsii rabot v sadakh i na vinogradnikakh (for Shlyakhovoy). Nachal'nik issledovatel'skogo otdela Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po mashinam dlya mekhanizatsii rabot v sadakh i na vinogradnikakh (for Filimonov).

(Spraying and dusting equipment)

GARNUSZEWSKI, Zbigniew; LISTEWNIK, Jerzy

Bronchilithiasis. Gruzlica, 25 no.10:825-829 Oct 57.

1. Z Kliniki Ftyzjatrycznej Pomorskiej Akademii Medycznej w Szczecinie. Kierownik: doc. Z. Garnuszewski oraz z Oddzialu IIIa Wojewodzkiego Szpitala Zakaznego w Szczecinie. Ordynator: A. Balc.

(BRONCHI, calculi
case reports (Pol))

LISTGARTEN, D. S.

"Effect of the state of the surface and of thermal theatment on the fatigue strength of spring steel" a paper presented at International Conference on the Fatigue of Metals, Londeon, Sep. 56.

ISI No. 103