PHASE I BOOK EXPLOITATION   SOV/4189

Gazaliyev, Maksut Vagidovich, and Antoniy Tikhonovich Zasukhin

Effektivnost' spetsializatsii i kooperirovaniya v mashino-
stroyenii (The Effectiveness of Specialization and Affilia-
tion in Machine Building). Moscow, Gosplanizdat, 1960.
207 p.   7,000 copies printed.

Ed.: I. S. Maksimov; Tech. Ed.: Ye. S. Gerasimova.

Sponsoring Agency: USSR. Gosudarstvennyy planovyy komitet.
Nauchno-issledovatel'skiy ekonomicheskiy institut.

PURPOSE: This book is intended for economists and industrial
planners.

COVERAGE: The book discusses the role of specialization and
affiliation in the organization of industrial production.
It analyzes the basic forms of specialization and affilia-
tion, assesses the efficiency of various stages of speciali-
zation, relates the volume of specialized production and the

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The Effectiveness of Specialization (Cont.)   SOV/4189

scope of affiliation, and summarizes basic trends of future developments of these organizational concepts. The book contains many tables and statistical curves and diagrams. No personalities are mentioned. References appear as footnotes.

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GAZALIYEV, Maksut Vagidovich

Effektivnost' Spetsializatsii i Kooperirovaniya v
Mashinostroyenii (by) M. V. Gazaliyev (1) A. T. ZASUKHIN.
Moskva, Gosplanizdat, 1960.
206 p. Diagrs., graphs, tables. 23cm.
At head of title: Russia. Nauchno-Issledovatel'skiy
Ekonomicheskiy Institut Gosplana.
Bibliographical Footnotes.

GAZALIYEV, Maksud Vagidovich, kand. ekonom. nauk; KUZNETSOV, P.V.,
    red.; PONOMAREVA, A.A., tekhn. red.

[Specialization and cooperation of industrial enterprises]
Spetsializatsiia i kooperirovanie promyshlennykh predpri-
iatii. Moskva, Ekonomizdat, 1961. 58 p.   (MIRA 15:8)
            (Industrial management)

GAZALIYEV, M.V., kand. ekonom. nauk

    Development of specialized manufacture of standard articles.
Standartizatsiia 28 no.4:60-64 Ap '64.   (MIRA 17:6)

    1. Nauchno-issledovatel'skiy ekonomicheskiy institut Gosplana
SSSR.

GAZALCV, B.; CRICV, V.

Sheep Shearing

Conducting electric shearing of sheep in an
exemplary manner. MTS 12 no. 5, 1952

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

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Over-all mechanization help to lower labor expenditures. Nauka i
pered. op. v sel'khoz. 8 no.3:35-37 Mr '58.   (MIRA 11:3)
                                 (Agricultural machinery)

BAYEVA, I.Ye.; SILANT'YEVA, Ye.V.; GAZAL'YAN, S.I.; KRASKOVA, N.I.; SHAYKHULINA, N.N.; SINEL'NIKOV, N.A.

Use of a decoction of Alhagi camelorum for the treatment of dysentery. Zdrav.Turk. 3 no.3:46-48 My-Je '59. (MIRA 12:11)

1. Iz kafedry mikrobiologii (zav. - dotsent A.I.Koval'chuk) Turkmenskogo meditsinskogo gosudarstvennogo instituta im. I.V. Stalina i infektsionnoy bol'nitsy Leninskogo rayona Ashkhabada (glavnyy vrach - I.Ye.Bayeva).
                    (DYSENTERY)
                    (ALHAGI CAMELORUM--THERAPEUTIC USE)

GAZAN, I. A.

Mashini i Oborudovanie Dlya Stroitelstva Mostov (Machinery and Equipment for Construction of Bridges, Moscow, 1948.

GAZANCHIYAN, V.I. [Hazanchiian, V.I.], kand. ekonom. nauk; SEMENOV, G.I.
[Semenov, H.I.]

    Improving the planning and accounting of production costs in
    the clothing industry. V.I. Hazanchiian, H.I. Semenov. Leh.
    prom. no.2:72-76 Ap-Je '64   (MIRA 17:7)

GAZANCHIYAN, V.?.; ZLAT'YEV, V.A. (Donetsk)

Improving the planning and accounting of commercial output
and cost of production. Shvein. prom. no.4:17-21   Jl-Ag '65.
                                                    (MIRA 18:9)

GAZANCHIYANTS, M.G.; MARTYUSHIN, I.G.

    Study of the performance stability of flow-through reactors with
    a fluidized bed sectioned with grid plates. Khim.i tekh.topl.
    i masel 10 no.1:36-40 Ja '65.   (MIRA 18:4)

    1. Moskovskiy institut khimicheskogo mashinostroyeniya.

GAZANCHIYANTS, M.G.; MARTYUSHIN, I.G.; PLANOVSKIY, A.N.

Mixing of gas in apparatus with a fluidized bed and stepped sieve
plates. Khim. i tekh. topl. i masel 10 no.9:38-42 S '65.

(MIRA 18:9)

1. Moskovskiy institut khimicheskogo mashinostroyeniya.

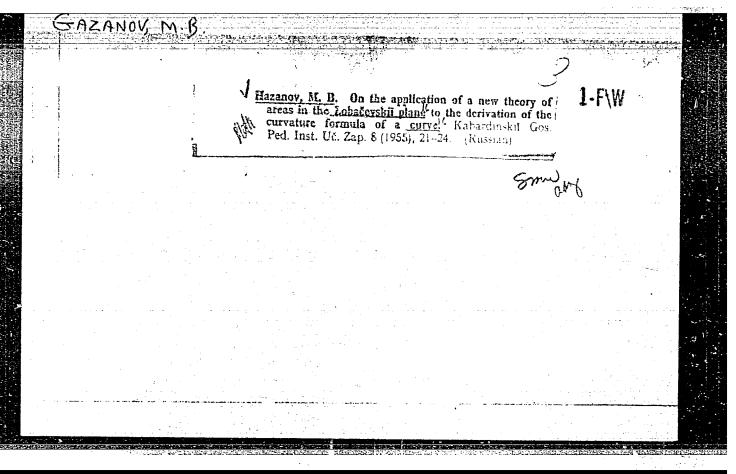GAZANCHIYANTS, M.G.; LASTOVTSEV, A.M.; MARTYUSHIN, I.G.; PLANOVSKIY, A.N.;
    KHARAKOZ, V.V.; SHNAYDER, Ye.Ye.

Apparatus for the processing of finely dispersed vegetable materials.
Gidroliz. i lesokhim. prom. 18 no.6:5-6 '65.   (MIRA 18:9)

1. Moskovskiy institut khimicheskogo mashinostroyeniya (for all
except Shnayder). 2. Vsesoyuznyy nauchno-issledovatel'skiy in-
stitut biosinteza belkovykh veshchestv (for Shnayder).

GAZANOV, M. B.

Hazanov, M. B.   On the application of a new theory of
areas in the Lobačevskiĭ plane to the derivation of the
curvature formula of a curve. Kabardinskiĭ Gos.
Ped. Inst. Uč. Zap. 8 (1955), 21–24.   (Russian)

1-F\W

GAZANOV, M. B.

5503:
Hazanov, M. B. Deviation of a vector in parallel transport along a surface. Kabardin. Gos. Ped. Inst. Uč. Zap. 12 (1957), 15–16. (Russian)

If a vector is moved parallel to itself (in the sense of Levi Civita) along a closed curve C on a sufficiently small region of a surface, then after return to its original position it is turned over an angle equal to the total curvature of the area bounded by C [see e.g. A. Duschek and W. Mayer, Lehrbuch der Differentialgeometrie, I, Teubner, Leipzig-Berlin, 1930; p. 218].

D. J. Struik (Cambridge, Mass.)

GAZANOV, R.K.

Reports of Narimanov Central Unified Hospital in Kirovabad on
urolithiasis. Azerb. med. zhur. no.9:51-54 S '61.   (MIRA 14:9)
                    (CALCULI, URINARY)

GAZANOV, Sh.M., zasluzhennyy deyatel' nauki, prof.

Organizing "health zones" in parks and gardens of Baku. Azerb.
med. zhur. no.7:3-8 Jl. '61.   (MIRA 15:1)
(BAKU—PUBLIC HEALTH)

ALIYEV, O.B.; GAZANOV, T.A.

Presence of Coniacian sediments in the upper Akhyndzhachay Valley
(Kedabek District). Dokl. AN Azerb. SSR 21 no.7:35-38 '65.
(MIRA 18:12)
1. Institut geologii AN AzSSR. Submitted February 19, 1964.

GAZANOV, T.G.; NADZHAFOVA, F.K.

Role of adenoviruses in the pathogenesis of acute diseases of the
upper respiratory tract. Azerb. med. zhur. no.10:62-66 0 '62.

(MIRA 17:10)

GAZAPI, Vladimir, inz.   (Zagreb, Vrbaniceva 20a)

Basic switches of electronic calculating machines. Tehnika
Jug:Suppl.:Elektrotehnika 13 no.1:125-127 Ja. '63.

1. Tvornica "Sljeme", Zagreb-Sesvete.

GAZAPI, Vladimir, ins. (Zagreb, Vrbaniceva 20a)

Mathematical and electrotechnical bases of electric calculating machines. Tekhnika Jug 17 no.12:2330-2335 D '62.

1. Tvornica "Sljeme", Zagreb-Sesvete.

GAZAPI, Vladimir, inz. (Zagreb, Vrbanicova 20-a)

Laplace transformation applied in computing automatic control processes. Tehnicka Jug 18 no.11:Suppl:Elektrotehnika 12 no.11: 2089-2093 N '63.

1. Tvornica "Sljeme", Zagreb-Sesvete.

PONTUCH, F.; GAZAREK, F.; DRAC, P.; POKORNY, J.; UHER, M.; HRADECKY, L.;
KOHOUTEK, M.; ZIDEK, J.; CECH, E.; CERVENKA, J.; NEMEC;
NOVAKOVA, J.

Perinatal mortality in premature labor. Cesk. gynek. 29
no.6:459-466 Ag '64.

1. I. gyn.-por. klin. Lek. fak. University Komenskeho v
Bratislave (prednosta prof. dr. S. Stefanik); Gyn.-por.
klin. Lek. fak. Palackeho University v Olomouci (prednosta
doc dr. F. Gazarek, CSc.); Gyn.-por. odd. Mestskeho ustavu
narodniho zdravi v Brne (veduci MUDr. Nemec); I. gyn.-por.
klin. Lek. Fak. University J.E. Purkyne v Brne (prednosta
prof. dr. L. Havlasek [deceased]); II. gyn.-por. klin. Lek.
fak. University J.E. Purkyne v Brne (prednosta doc. dr. M. Uher,
CSc.); Gyn.-por. klin. Lek. fak. Karlovy University v Plzni
(prednosta prof. dr. V. Mikolas); I. gyn.-por. klin. Fak. vseob.
lek. Karlovy University v Prahe (prednosta prof. dr. K. Klaus,
DrSc.); Gyn.-por. klin. Lek. fak. University P.J. Safarika v
Kosiciach (prednosta doc. dr. K. Poradovsky, CSc.).

GAZAREK, F. (gyn. por. odd. OUNZ Sumperk)

Possibilities of further decrease of infant mortality in the field.
Cas. gyn. 23[37] no.4:245-247 June 58.

1. Gyn. por. odd. OUNZ v Sumperku, primar MUDr. F. Gazarek.
(INFANT MORTALITY, prevention and control,
(Cz))

GAZAREK, Frantisek; KRIKAL, Zdenek

Indications for active management of 3d stage of labor supported by vasoplacentography. Cesk. gyn. 23[37] no.6:442-446 Aug 58.

1. Por. gyn. oddel. OUNZ Sumperk, prednosta prim. MUDr. Frantisek Gazarek. F. G., Sumperk, Nemocnicni ul.
        (PLACENTA, blood supply
                vasoplacentography, value in indicating management of
                3d stage of labor (Cz))
        (LABOR
                3d stage, management, value of vasoplacentography (Cz))

GAZAREK, Frantisek

Antenatal care and ovarian tumors in pregnancy. Cesk. gyn. 24[38] no.6:468-472 July 1959

1. Por.-gyn. odd. OUNZ Sumperk, prednosta prim. MUDr. Frantisek Gazivek.
(OVARY, neoplasms)
(PREGNANCY, compl)

CAZAREK, Frantisek

Cystic kidney degeneration as a recurrent cause of labor complication. Cesk. gyn. 25[39] no.1/2:149-151 Mr '60.

1. Por.-gyn. oddeleni OUNZ v Sumperku, prednosta prim. MUDr. Fr. Gazarek.
     (DISTOCIA etiol.)
     (KIDNEY DISEASE)
     (FETUS dis.)

GAZAREK, Frantisek; KRIKAL, Zdenek

Role of education i n the prevention of late gestosis. Cesk.gyn.
25[39] no.3:202-205 1960.

1. Gyn. por. odd. OUNZ, Samperk, prednosta Frantisek Gazarek.
        (PREGNANCY TOXEMIAS prev. & control)

GAZAREK, F.; KRIKAL, Z.; VYTASEK, R.

Observations on the differential diagnosis between acute necrosis of the pancreas and thrombosis of the mesenteric vessels in pregnancy and labor. Cesk.gyn.25[39] no.8:626-638 0'60.

1. Gyn.por.odd. OUNZ, Sumperk, prednosta dr. Frantisek Gazarek.
          (PANCREAS diseases)
          (MESENTERIC VESSELS dis)
          (PREGNANCY compl)
          (THROMBOSIS in pregn)

GAZAREK, F.; LUSKAC, E.; HAJDUK, Fr.

Measures for the control of nosocomial infections in obstetries.
Cesk. gyn. 26[40] no.4:305-311 '61.

1. Gyn. por. odd. OUNZ Sumperk, preda MUDr. Fr. Gazarek, zaslouzily
lekar CSSR.

(HOSPITALS)   (STAPHYLOCOCCAL INFECTIONS prev & control)
              (OBSTETRICS)

GAZAREK, Frantisek

Abdominal colpopexy. Cesk. gynek. 26 no.9:696-697 N '61.

1. Gyn. por. odd. OUNZ v Sumperku, prednosta prim. MUDr. Fr. Gazarek, zasleuzily lekar CSSR.

(VAGINA surg)

GAZAREK, Frantisek

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees:

Affiliation:

Source: Prague, Prakticky Lekar, Vol 41, No 11, 1961, pp 499-505.

Data: "Prevention in the Staphylococcal Infections in Maternity and Infant
      Departments."

Authors: GAZAREK, Frantisek, MD, Director of the Obstetrical and Gynecologic
      Department OUNZ /Okresni ustav narodniho zdravi; Okres
      Institute of Public Health/ (Porodnicko-gynekologicke
      oddeleni OUNZ), Sumperk.
      Luskac, Emil, MD, /presumably/ Epidemiological Department of the
      Ministry of Health (Oddeleni epidemiologie Ministerstva
      zdravotnictvi), Prague.
      HAJDUK, Frantisek, MD, /presumably/ Epidemilogical Department of
      the Ministry of Health, Prague.
      SMEKAL, M., RNDr, KHES /Krajska hygienicko-epidemiologicka stani-
      ce; Kraj Public Health and Epidemiology Station/, Olomouc
      VAREKA, RNDR, OHES /Okresni hygienicko-epidemiologicka stanice;
      Okres Public Health and Epidemiology Station/, (GPO 98164)
      Sumperk.

GAZAREK, Frantisek; KRIKAL, Zdenek; STOLCOVA, Eliska

Role of the midwife in the preparation of expectant mother for labor. Cesk. gyn. 27[41] no.5:363-366 Je '62.

1. Por.-gyn. odd. OUNZ Sumperk, prednosta dr. Fr.Gazarek.
          (LABOR)   (MIDWIVES)

KRIKAL, Zderiek; GAZAREK, F.

Medical management of the onset of labor with prevention of pain and
complications. Cesk. gyn. 27[41] no.5:405-409 Je '62.

1. Gyn. por. odd. OUNZ Sumperk, prednosta dr. F. Gazarek.
                    (DELIVERY)

GAZAREK, F.

Heart diseases and maternal mortality. Cesk. gyn. 28 no.1/2:57-62 F
'63.

1. Gyn.-por. klinika lek. fak. PU v Olomouci, prednosta doc. dr.
F. Gazarek, CSc.
            (HEART DISEASES)   (PREGNANCY COMPLICATIONS)
                    (MATERNAL MORTALITY)

GAZAREK, F.

Intrauterine fetal death in kidney diseases. Cesk.gynek. 28 no.8: 566-571 O '63.

1. Gyn. por. klin. lek. fak. PU v Olomouci, prednosta doc. dr. F. Gazarek, CSc.

GAZAREK,F.; KRIKAL,Z.

Postgraduate training for field workers in the program of a
unified hospital located in territory belonging to a clinic.
Cesk. gynek. 29 no.1:136-139   F'64.

1. Gyn.-por. klin.lek.fak. PU v Olomouci; prednosta: doc.dr.
F.Gazarek, CSo.

HECZKO,P.; LINDNER,E.; GAZAREK,F.; SCHINAR,J.

Effect of genital inflammations on the uropoietic system in women. Cesk. gynek. 29 no.3:239-241 Ap'64

1. Gyn.-por. klin.lek.fak. PU v Olomouci (prednosta: doc.dr. F. Gazarek,CSc.) a Chirurg. klin. lek. fak. PU v Olomouci, (prednosta: prof. dr. Vl.Rapant, DrSc.).

SNAID,V.; BUDINSKA, E.; CERNOCH, A.; FINKOVA,A.; GAZAREK, F.; POKORNY,J.;
    RAFFAJ,K.

    Diagnosis and surgical treatment of insufficiency of the cervix
    uteri in pregnancy. Cesk. gynek. 29 no.4:254-258 My'64

STEMBEFA, Z.K.; KOTASEK, A.; TRNKA, V.; GAZAREK, F.; POKORNY, J.; KOLFTA, F.

Asphyxia and perinatal mortality (antenatal and intranatal).
Cesk. gynek. 29 no.6:485-492 Ag '64.

JURKOVIC, Ivan, prof.,dr.ing.; GAZAREK, Mato, ing.rud.

The Brezicane flint sand as raw material for the production of porous concrete. Kem ind 9 no.9:N-31—N-36 S '60.

1. HAZAREVSKIY, S.I.

2. USSR (600)

4. Floriculture

7. Recording data on the study and appraisal of ornamental flowering plants. Biul. Glav. bot. sada no. 12 1952

9. Monthly List of Russian Accessions. Library of Congress. March 1953. Unclassified.

L 13952-66   EWT(m)/EPF(n)-2/EWP(t)/EWP(b)   IJP(c)   ES/JD/WW/JW/JG/DM

ACC NR: AP6001693   (N)   SOURCE CODE: UR/0089/65/019/005/0437/0441

AUTHOR: Khripin, L. A.; Gazarinskiy, Yu. V.; Zadneprovskiy, G. M.; Luk'yanova, L. A.

ORG: none

TITLE: The binary UF_4-UCl_4 system

SOURCE: Atomnaya energiya, v. 19, no. 5, 1965, 437-441

TOPIC TAGS: uranium compound, halide, x ray analysis, thermal analysis, phase diagram

ABSTRACT: Mixed uranium halogenides are, evidently, the least known of the halide compounds of the fourvalent uranium. The authors investigated the binary UF_4-UCl_4 system by differential thermal analysis and x-ray methods and established its phase diagram. The system contains three uranium compounds: UCl_2F_2, $UClF_3$, and (not previously reported) UCl_3F. All three compounds melt in an incongruent manner at 460 ± 3, 530 ± 6, and $444 \pm 2C$, respectively. No solid solutions have been found. The authors determined in general the optimum conditions for the production of pure systems of the compounds from binary UCl_4-UF_4 melts. On the basis of the phase diagram obtained, explanations are given for the apparently contradictory results obtained by other authors in studies of the methods for the synthesis of UCl_2F_2 and $UClF_3$. Orig. art. has: 6 formulas and 2 figures.

SUB CODE: 07/ SUBM DATE: 02Dec64/ ORIG REF: 002/ OTH REF: 005

Card 1/1   UDC: 546.791.4

KOLESNIKOV, G.F., kand.med.nauk; GRIGOR'YEVA, L.V., kand.med.nauk; POTULOVA,
     Ye.K.; SHCHIROVA, N.N.; GORBULEVA, Z.V.; GAZARKH, R.N.

     Characteristics of the clinical aspects in the course of Bornholm
     disease caused by Coxsackie virus B3. Sov.med. 28 no.4:52-56 Ap
     '65.   (MIRA 18:6)

     1. Institut kibernetiki AN UkrSSR (dir. - deyatvitel'nyy chlen
     AN Ukrainskoy SSR V.M.Glushkov) Ukrainskiy nauchno-issledovatel'-
     skiy institut kommunal'noy gigiyeny (dir. - prof. D.N.Kalyuzhnyy)
     i Luganskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya
     (glavnyy vrach - N.N.Shchirova).

GAZARKH, Z. S. (Senior Scientific Collaborator), and SHAROV, V. A. (Junior Scientific
        Collaborator, VIEV).

    "Complement fixation reaction used in the diagnosis of paratuberculosis."

Veterinariya, Vol. 38, No. 2, 1961, p. 25.

GAZARKH, Z. S. and SHCHUREVSKIY, V. E. (Senior Scientific Co-Worker, All-Union Institute of Experimental Veterinary Medicine)

"Diagnostic effect of allergy in paratuberculosis of goats"
Veterinariya, vol. 39, no. 6, June 1962 pp. 39

SHAROV, V.A., kand.veter.nauk; GAZARKH, Z.S.

Diagnosis of paratuberculosis in sheep and goats. Trudy VIEV
26:135-138 '62.
(MIRA 16:2)

1. Laboratoriya po izucheniyu tuberkuleza i paratuberkuleza
Vsesoyuznogo instituta eksperimental'noy veterinarii.
(Johne's disease)

GAZARKH, Z.S., starshiy nauchnyy sotrudnik; SHCHUREVSKIY, V. Ye., sta-
shiy nauchnyy sotrudnik

Diagnostic importance of allergy in Johne's disease of goats.
Veterinariia 39 no.6:39-41 Je '62   (MIRA 18:1)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

GAZARKH, Z.S., starshiy nauchnyy sotrudnik; SHAROV, V.A., mladshiy nauchnyy sotrudnik
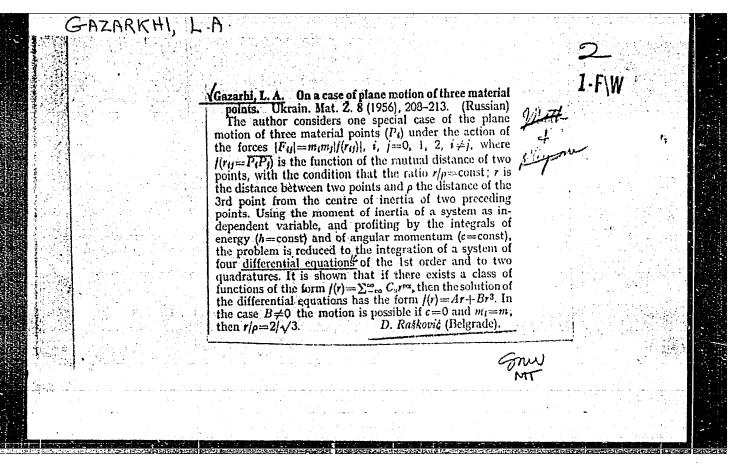
Complement fixation reaction in the diagnosis of paratuberculosis.
Veterianriia 38 no.2:25-28 F '61.   (MIRA 18:1)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

KALUGIN, V.I., dotsent; G........., ..., ...LOVSKIY, V.V., kand. veterin. nauk

In memory of Academician Sergei Nikolaevich Vyshelesskii, 1874-1958. Veterinariia 41 no.1:121-125 Ja '65.

(MIRA 18:2)

GAZARKHI, L·A·

Gazarhi, L. A. On a new integral, algebraic in the velocities, of the generalized three-body problem. Ukrain. Mat. Ž. 8 (1956), 5–11. (Russian)

The author considers the motion of three particles with equal masses, interacting with forces of modulus

$$m_i m_j |A r_{ij} + B r_{ij}^3| \quad (i, j = 1, 2, 3; \; i \neq j),$$

where r_{ij} denotes the distance between the masses m_i and m_j, and A, B are constants. The existence of a new algebraic integral, independent of the ten classical integrals, is shown. The integral found by Yu. D. Sokolov [C. R. (Dokl.) Acad. Sci. URSS (N.S.) 46 (1945), 95–98; MR 7, 224] and that obtained by E. Egerváry [ibid. 55 (1947), 793–795; MR 9, 211] are special cases of this integral. By means of this new integral the order of the system of differential equations of motion is reduced to four.   *E. Leimanis* (Vancouver, B.C.).

GAZARKHI, L. A.

2

1·F\W

Gazarhi, L. A. On a case of plane motion of three material points. Ukrain. Mat. Ž. 8 (1956), 208–213. (Russian)

The author considers one special case of the plane motion of three material points (P_i) under the action of the forces $|F_{ij}| = m_i m_j |f(r_{ij})|$, $i, j = 0, 1, 2, i \neq j$, where $f(r_{ij} = \overline{P_i P_j})$ is the function of the mutual distance of two points, with the condition that the ratio $r/\rho = \text{const}$; r is the distance between two points and ρ the distance of the 3rd point from the centre of inertia of two preceding points. Using the moment of inertia of a system as independent variable, and profiting by the integrals of energy $(h = \text{const})$ and of angular momentum $(c = \text{const})$, the problem is reduced to the integration of a system of four differential equations of the 1st order and to two quadratures. It is shown that if there exists a class of functions of the form $f(r) = \sum_{-\infty}^{\infty} C_\nu r^{p_\nu}$, then the solution of the differential equations has the form $f(r) = Ar + Br^3$. In the case $B \neq 0$ the motion is possible if $c = 0$ and $m_i = m$; then $r/\rho = 2/\sqrt{3}$.   D. Rašković (Belgrade).

GAZAROV, A.T.

SARKISYAN, A.M.; AVANESYAN, T.G.; MELKONYAN, V.A.; GAZAROV, A.T.

Preparation of slag for casting into stones. Patent U.S.S.R. 77,344, Dec. 31, 1949.
(CA 47 no.19:10196 '53)

GAZAROV, A.T.

Some problems on the synthesis of hinged four member mechanisms.
Izv. AN Arm. SSR. Ser. FMET nauk 8 no.85-99 Mr-Ap '55. (MLRA 8:7)

1. Yerevanskiy politekhnicheskiy institut imeni K. Marsa.
   (Mechanics)

GAZAROV, A.T., kandidat tekhnicheskikh nauk.

Designing embossing press mechanisms. Vest. mash. 36 no.8:
50-55 '56. (MLRA 9:10)

(Power presses)

(: A Z A K C y A .T.

122-3-2/30

AUTHOR: Gazarov, A.T., Candidate of Technical Sciences, Dotsent.

TITLE: On Design Standards of Crank Mechanisms (O normakh proyek-
          tirovaniya krivoshipno-shatunnykh mekhanizmov)

ABSTRACT: The crank mechanism generally used in machine tools with
           its cross-slide axis either intersecting the crankshaft axis or
           eccentric are examined. The variety of conditions in different
           machine tools is classified and their effect on the desirable
           ratio of the forward and return stroke is discussed. The maxi-
           mum number of strokes and the minimum crankshaft torque for a
           given cross-slide force over the working portion of the cross-
           slide stroke are the main design criteria. This torque-to-
           pressure ratio is determined by the angle between the connecting
           rod and the cross-slide axis whose values in the effective range
           are plotted for different forward-to-return stroke ratios and
           different crank ratios. The importance of determining the
           effective limit of the working stroke is emphasised. Certain,
           supposed practical limitations to keep the connecting rod angle
           above 45° are proved to be unfounded and for a friction coeff-
           icient of 0.08 no wedging-in of the cross-slide can be expected
           down to an angle of 10°, which can, therefore, be tolerated
Card1/2   during the idling portions of the strokes.

On Design Standards of Crank Mechanisms.   122-3-2/30

    There are 10 figures, including 7 graphs and 3 Slavic
    references.

AVAILABLE: Library of Congress.

Card 2/2

GAZAROV, A. T.

25(2)   PHASE I BOOK EXPLOITATION   SOV/2564

Akademiya nauk SSSR.   Institut mashinovedeniya.   Seminar po
    teorii mashin i mekhanizmov

Trudy, tom 18, vyp. 69 (Transactions of the Institute of Mechanical
    Engineering, Academy of Sciences, USSR.   Seminar on the Theory
    of Machinery and Mechanisms, Vol 18, No. 69) Moscow, Izd-vo
    AN SSSR, 1958.   69 p. Errata slip inserted.   2,500 copies
    printed.

Ed. of Publishing House: V.R. Beylin;   Tech. Ed.: N.F. Yegorova;
    Editorial Board: I.I. Artobolevskiy, Academician (Resp. Ed.);
    G.G. Baranov, Doctor of Technical Sciences, Professor;
    V.A. Gavrilenko, Doctor of Technical Sciences, Professor;
    V.A. Zinov'yev, Doctor of Technical Sciences, Professor;
    A.G. Kobrinskiy, Doctor of Technical Sciences; N.I. Levitskiy,
    Doctor of Technical Sciences, Professor; N. P. Rayevskiy,
    Candidate of Technical Sciences; L.N. Reshetov, Doctor of
    Technical Sciences, Professor; and M.A. Skuridin, Doctor of
    Technical Sciences, Professor.
Card 1/4

Transactions of the Institute (Cont.)   SOV/2564

PURPOSE: This book is intended for engineers interested in
   the theory of machinery and mechanisms.

COVERAGE: This collection of scientific papers deals with
   the synthesis and analysis of types of linkage, an investigation
   of vibratory mechanisms, and methods of calculating the
   nonuniformity of tape movement in tape-feeding mechanisms
   of memory units. References follow several of the articles.

TABLE OF CONTENTS:

Card 2/4

Transactions of the Institute (Cont.)   SOV/2564

Gazarov, A.T. [Candidate of Technical Sciences]. Problem
of Synthesizing Four-bar Linkages With Maximum Angles of
Transmission   13
   The author discusses the problem of designing a four-
   bar linkage with a given velocity ratio and a maximum
   angle of transmission.

Levitskiy, N.I. [Doctor of Technical Sciences]. Synthesis of
Link Mechanisms   18
   The author presents a simplified and accurate method
   of synthesizing types of linkages.

Bessonov, A.P. [Candidate of Technical Sciences]. In-
vestigating the Motion of a Vibratory Mechanism With a Weak
Spring as a System With Two Degrees of Freedom   34
   The author investigates the motion of a vibratory
   mechanism with a small restoring force.

Card 3/4

Transactions of the Institute (Cont.)

SOV/2564

Pusset, L.A. [Candidate of Technical Sciences]. Methods of
Calculating the Nonuniformity of Tape Movement in Tape-
feeding Mechanisms

52

AVAILABLE: Library of Congress

Card 4/4

GO/mg
12-7-59

. 25(2)

Gazarov, Artem Tigranovich

Sharnirno-rychazhnyye mekhanizmy kuznechno-pressovykh mashin (Link
  Mechanisms of Forging Presses and Machines) Moscow, Mashgiz, 1958.
  107 p. Errata slip inserted. 4,000 copies printed.

Ed.: M.V. Storozhev; Ed. of Publishing House: V.A. Mezhova;
  Tech. Ed.: G.V. Smirnova; Managing Ed. for Literature on Heavy
  Machine Building: S.Ya. Golovin, Engineer.

PURPOSE: The book is intended for engineers, designers, and
  students of vtuzes.

COVERAGE: The book presents analytical methods for the synthesis of
  toggle mechanisms of press forming machines. These methods can
  be used in other branches of machine design where analogical
  mechanisms are widely used, either in the design of new machines
  or in modernizing existing ones. The author states that during
  the last five year plan the production of forging equipment
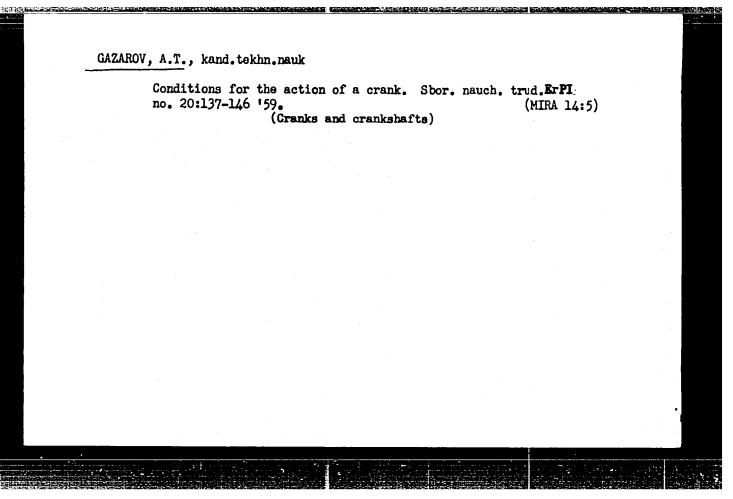 increased eight times, and during the present five year plan it
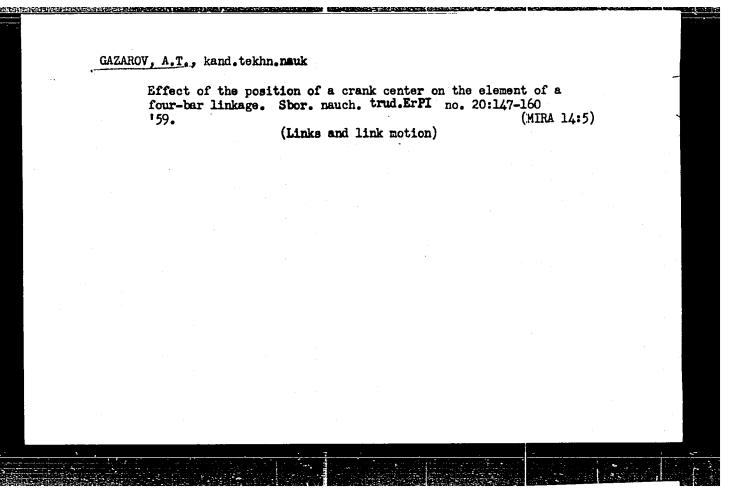
Card 1/5

Link Mechanisms of Forging Presses (Cont.)   SOV/1812

increased four times. These facts show that metal forming
will take the leading role in metalworking in the USSR. The
intention of the author is to eliminate nonrational, random
designs of press mechanisms and to provide guidance for design
of optimum schemes of these mechanisms, enabling the building
of economical presses of high productivity and minimum weight.
No personalities are mentioned. There are 9 references, all
Soviet.

TABLE OF CONTENTS:

Card 2/5

GAZAROV, A.T.

Generalization of Professor Baranov's problem. Izv. AN Arm.SSR. Ser.
tekh. nauk 11 no.1:61-64 '58.   (MIRA 11:4)

1. Yerevanskiy politekhnicheskiy institut im. K. Marksa.
                        (Mechanics, Analytic)

GAZAROV, A.T., kand.tekhn.nauk

Conditions for the action of a crank. Sbor. nauch. trud.ErPI
no. 20:137-146 '59.   (MIRA 14:5)
                    (Cranks and crankshafts)

GAZAROV, A.T., kand.tekhn.nauk

Effect of the position of a crank center on the element of a
four-bar linkage. Sbor. nauch. trud.ErPI no. 20:147-160
'59.   (MIRA 14:5)
                    (Links and link motion)

S/145/60/000/006/011/015/XX
D221/D304

AUTHOR: Gazarov, A.T., Candidate of Technical Sciences, Docent

TITLE: Choice of a rational scheme for crank mechanisms

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroye-
             niye, no. 6, 1960, 76 - 80

TEXT: The author compares concentric and eccentric crank mechani-
sms. It was found that in cases where no full working stroke is
used, or where the return stroke is not used the eccentric mechani-
sm can transmit more torque, and loads the crankshaft to a lesser
degree than the concentric mechanism, under similar conditions. In
a concentric mechanism (since the line of the piston is an axis of
symmetry) the angles at which the forces are transmitted are symme-
trical for both working and return strokes. In an eccentric mecha-
nism, however, the angles are larger during the working part and
sharper during the return stroke. In a concentric mechanism the
working angle of the crank can reach 90° in the extreme; an equa-
tion is given for the minimum angle and for the force-transmitting
angle of an eccentric mechanism. A formula for Ψ_{max} is derived. Ψ
Card 1/2

$S/145/60/000/006/011/015/XX$
$D221/D304$

will decrease to Ψ_0'' at the end of the working stroke. On the return stroke Ψ changes from Ψ_0'' to Ψ_{min} and then increases to Ψ_0' again. Comparing the values one can see that during the working stroke the angles between crank and connecting rod are larger for the eccentric mechanism, and during the return stroke, for the concentric mechanism. The use of eccentric mechanism is particularly advantageous when $\lambda = 0.1 - 0.3$. In a diagram the angle Ψ is plotted against % of stroke and it can be seen that the full line representing the eccentric mechanism with $\varepsilon = \lambda$ is mostly above the one showing the change of Ψ in a concentric mechanism. The value of λ was 0.3. It is concluded that eccentric mechanisms are particularly advantageous when λ is relatively large and the whole working stroke is not utilized. It is mentioned that even when eccentric mechanisms are used in practice, they are not always rationally designed; an example is discussed. There are 2 figures and 2 Soviet-bloc references.

ASSOCIATION: Yerevanskiy politechnicheskiy institut (Yerevan Polytechnic Institute)

SUBMITTED: December 24, 1957

Card 2/2

17.7000

24.4100

30251

S/145/60/000/009/002/017
D221/D304

AUTHOR: Gazarov, A.T., Candidate of Technical Sciences, Docent

TITLE: Synthesizing cam mechanisms with an optimum angle of pressure

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashino-
             stroyeniye, no. 9, 1960, 24 - 28

TEXT: The problem consists in making the deviation of $\operatorname{ctg} \psi$ from
$\operatorname{ctg} \psi_0$ as small as possible (ψ_0 is the optimum angle of pressure).
On the basis of geometrical and kinematic relationships it is al-
ways possible to form $\operatorname{ctg} \psi = f(\varphi)$, where φ is the variable angle
that determines the position of the cam. With the above function
it is easy to solve the problem of assessing the deviations of the
function from a specified value $\operatorname{ctg} \psi_0 = m$ using, for example, the
criterion of mean quadratic deviations. The choice of the optimum
angle of pressure is predetermined by the desired limiting factors.
In the case of minimum wear of cam, pressure should be reduced, and

Card 1/3

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S/145/60/000/009/002/017
Synthesizing cam mechanisms with ...   D221/D304

therefore, the right angle will be optimum. The author demonstrates
this method in the case of a plate cam and an oscillating follower.
An assumption is made that the follower has a motion defined by α =
$α_0$ + F(φ), where α is the angle which determines the position of
the rocker at any point, and $α_0$ in its lower position. A set of
equations is deduced which leads to

$$\lambda = \frac{\int_{\varphi_1}^{\varphi} \frac{1 + F'(\varphi)\cos\alpha}{\sin^2\alpha}\,d\varphi + m\int_{\alpha_1}^{\alpha_2} \frac{1 + F'(\varphi)}{\sin\alpha}\,d\alpha}{\int_{\varphi_1}^{\varphi_2} \frac{[1 + F'(\varphi)]^2}{\sin^2\alpha}\,d\varphi} \qquad (9)$$

The latter is simplified when minimum wear at constant speed of
follower is required. Then the above coefficient is reduced to

$$\lambda = \frac{1}{1+a} \frac{\cos\left(\alpha_0 + \frac{\alpha_p}{2}\right)}{\cos\frac{\alpha_p}{2}}.$$

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S/145/6J/000/009/002/017

Synthesizing cam mechanisms with ...   D221/D304

In addition, another equation is obtained, by subjecting the mecha-
nism to the condition of the pressure angle that ensures an assumed
value of arc ctg n. The author cites the mathematical analysis for
the above. There is 1 figure.

ASSOCIATION: Vladimirskiy filial moskovskogo vechernego mashino-
             stroitel'nogo instituta (Vladimir Branch of the Moscow
             Evening Engineering Institute)

SUBMITTED: October 23, 1958

Card 3/3

GAZAROV, G.

Operational experience of the "Parizhskaia kommuna" Plant. Mor.
flot 18 no. 6:11-12 Ja '58.   (MIRA 11:7)

1. Starshiy inzhener planovo-proizvodstvennogo otdela zavoda imeni
Parizhskoy Kommuny.   (Shipyards)

NAZAROV, G.S. (Docent) (Saratov Zooveterinary Institute)

"New Methods for the Prophylaxis and Treatment of Skin Diseases of Fur-bearing Animals During the Wintertime,"

SO: Veterinariya, Vol 29, No 4, pp 34-36, 1952.

GAZAROV, G.S.

KORNIYENKO, V.S.; GAZAROV, G.S.

Clamp device for lifting storage tanks under roller machine construction into vertical position. Rats.i izobr.predl. v stroi. no.113:23-26 '55.

(MLRA 9:4)

(Tanks)

ZAMAKHOVSKAYA, A.G., kand.ekonomicheskikh nauk; GAZAROV, G.D.; ZININ, V.V.

Introduction of a new system for planning ship repair plant operations
Trudy TSNIIMF no.29:33-42 '60.   (MIRA 15:11)

1. Nachal'nik planovogo otdela Sudoremontnogo zavoda Kaspiyskogo
parokhodstva imeni Parizhskoy Kommuny (for Gazarov). 2. Zamestitel'
nachal'nika planovogo otdela Kaspiyskogo parokhodstva (for Zinin).
                    (Ships—Maintenance and repair)
              (Merchant marine—Cost of operation)

VINOKUROV, V.A.; GAZARYAN, A.S.

Deformations during electric slag welding. Avtom. svar. 13 no.9:3-
11 S '60.
(MIRA 13:10)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana.
(Electric welding)   (Deformations (Mechanics))

GAZARYAN, G. S. Cand Tech Sci -- (diss) "Problems of joint and separate working of several strata." Baku, 1959. 11 pp (Min of Higher and Secondary Specialized Education USSR. Azerbaydzhan Order of Labor Red Banner, Inst of Petroleum and Chemistry im A. Azizbekov), 150 copies (KL, 47-59, 114)

-23-

GONCHAROV, K.F.; DOBROBORSKIY, S.A.; SIDOROV, P.N.;
KOROSTASHEVSKIY, R.V.; KABANETS, Ya.P.; GROMYKO, Ye.M.;
KARASIK, P.I.; GAZAROV, L.A.; YAKHIN, B.A.; GORIN,
N.V., red.; POLYANSKAYA, Z.P., tekhn. red.

[Ball and roller bearings; catalog and handbook] Shariko-
vye i rolikovye podshipniki; katalog-spravochnik. Izd.2.,
ispr. i dop. Moskva, 1963. 379 p.   (MIRA 17:3)

1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy in-
formatsii po avtomatizatsii i mashinostroyeniyu. 2. Nauchnyye
sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo konstruk-
torsko-tekhnologicheskogo instituta podshipnikovoy promysh-
lennosti (for all except Gorin, Polyanskaya).

G-AZAROV, N. A.

93-6-6/20

AUTHOR: Gazarov, N.A.

TITLE: Kinematics of 3-Cutter Bits (K voprosu kinematiki trekhsharoshechnykh dolot)

PERIODICAL: Neftyanoye khozyaystvo, 1957, Nr 6, pp. 19-22 (USSR)

ABSTRACT: The author asserts that certain aspects of the vertical movement of a bit in rotary drilling have not been formulated clearly. A study of the kinematics of bits makes it possible to understand the mechanism of the drilling-crushing action and leads to conclusions which are of great value in selecting the best designs for bits. The bit under discussion has three conic cutters equipped with rows of teeth. The cutter is considered an integral part of the bit and drill pipe column. For the sake of analysis it is assumed that the cutter is placed on the smooth horizontal hard face of the hole. At the start the cutter may rest either on the apices of one row of teeth or on the apices of two adjoining rows of teeth. Both of these situations are analyzed, their consequences pointed out, and a mathematical representation of periodic regularity of the vertical movement of the bit is given. The mathematical derivation of a formula for the vertical movement is also given and compared with the formula arrived at by V.S. Fedorov in his work "Scientific Principles of Drilling Technique" (Nauchnyye osnovy rezhimov bureniya). The author concludes that Fedorov's equation is incorrect. Equations representing the movement of any given point

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93-6-6/20

Kinematics of 3-Cutter Bits (cont)

on the cutter are given, the vertical movement of the bit being taken into account. In conclusion, it is stated that such an analysis of work performed by tricone cutters on an absolutely smooth and hard face of a hole clarifies certain problems of cutter kinematics not raised by other authors. The best shape for a cutter is one which will ensure a uniform participation of all teeth in the rolling-crushing action and which will eliminate undesirable overloading of individual sections of the working surface.

AVAILABLE: Library of Congress

Card 2/2

14(5)   SOV/152-59-1-6/31
AUTHOR: Gazarov, N. A.

TITLE: On the Question of the Dynamics of Vertical Shifts of a Bit
               With Three Milling Tools of the Impact Drilling Equipment
               (K voprosu dinamiki vertikal'nykh peremeshcheniy trekhsharoshech-
               nogo dolota udarnogo vooruzheniya)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, 1959,
               Nr 1, pp 27-33 (USSR)

ABSTRACT: The geometrical investigation of vertical shifts by the author
               (Ref 1) furnished formula (1), which holds both for the lifting
               of the bit to the apex of the culling tooth and for the lowering
               of the bit to the apices of the two neighboring teeth of the
               milling tool. A more thorough investigation shows, however, that
               the two shifts differ greatly from one another. Formulas (11)
               and (12) are derived, showing that the lifting velocity is dif-
               ferent from the lowering speed. The calculations made show that
               under otherwise equal conditions $v_{lowering} > v_{lifting}$. In dril-
               ling especially hard rock the main demolition occurs in the
Card 1/2   lowering of the tool from the apex of the tooth. The theorem on

On the Question of the Dynamics of Vertical Shifts of a Bit With Three
Milling Tools of the Impact Drilling Equipment

the increasing angular momentum during the lowering of the tool
is applied, and the effect of the impact is estimated on the
assumption that the demolition of the rock is proportional to
the impact. Formula (14) is derived. It combines all main para-
meters affecting the drilling operation: the axial pressure P_1,
the number of teeth Z of the milling tool, and the speed of
rotation of the bit n_M. Formula (14) is then transformed into

formula (15), which basically determines the profitability of
drilling rocks of different hardness. The number of milling teeth
is not arbitrary but depends on the physical and mechanical
properties of the rock. The results obtained by this method
agree with those obtained in the experiments conducted at the
VNII BT and those obtained in actual drilling operations on the
oil fields. There are 1 figure, 1 table, and 3 Soviet references.

ASSOCIATION: Azerbaydzhanskiv industrial'nyy institut im. M. Azizbekova
(Azerbaydzha Dustrial Institute imeni M. Azizbekov)

SUBMITTED: July 15, 1958

Card 2/2

GAZAROV, N.A.

Biting of tooth into rocks and the mechanical drilling speed of
a percussion bit. Izv. vys. ucheb. zav.; neft' i gaz 2 no.8:25-26
'59.   (MIRA 12:11)

1.Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova.
              (Oil well drilling)

GAZAROV, N.A.

Speed of the combined motion of cone teeth. Izv. vys. ucheb.
zav.; neft' i gaz 3 no.9:39-41 '60.   (MIRA 14:4)

1. Azerbaydzhanskiy institut nefti i khimii imeni M.Azizbekova.
                (Oil well drilling)

HAZAROV, S. T.
GAZAROV, S.T.

USSR/Welding, Seam	May 1947
Detection, X-ray	

"Determining Internal Stresses in Welding Joints by Roentgen Rays," S. T. Hazarov, Ya. E. Sanchuk, 3 pp

"Avtogennoye Delo" No 5

Discusses two types of stress, in X- and V-shaped seams, of which the second can be neutralized by thermal treatment.

12T3

GAZAROVA

1272

S/181/60/002/01/33/035
B008/B014

24.7700

AUTHORS: Kolomiyets, B. T., Bazarova, T. F.

TITLE: The Part Played by Impurities in the Conductivity of Vitreous As_2SeTe_2

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No.1, pp. 174-176

TEXT: The authors studied the part played by impurities in vitreous and crystalline substances of the same composition. They chose $As_2Se_3 \cdot 2As_2Te_3$ (As_2SeTe_2) for this purpose. When the melt of this substance is slowly cooled it crystallizes, and it becomes vitreous when it is suddenly cooled. This substance was produced from high-purity elements, and was additionally purified by zonal recrystallization. A table lists the mean values of the conductivity of glasses and crystalline As_2SeTe_2 immediately after synthesis and zonal recrystallization. It may be seen that after zonal fusion has been carried out the conductivity of the crystalline substance is lowered by three orders of magnitude and passes

Card 1/2

The Part Played by Impurities in the
Conductivity of Vitreous As_2SeTe_2

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from the p-type to the n-type. The electrical properties of vitreous As_2SeTe_2, however, remain unchanged. The conductivity of the crystalline material has a different temperature dependence before and after zonal fusion. The activation energy of the impurity centers, determined from temperature characteristics, amounts to 0.4 ev. The temperature dependence of the conductivity of vitreous material is not influenced by the degree of purity. It is characterized by the activation energy of the 1.0-ev carriers. The temperature characteristics of crystalline and vitreous As_2SeTe_2 are shown in the figure. There are 1 figure, 1 table, and 4 Soviet references.

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut AN SSSR
(Leningrad Institute of Physics and Technology, AS USSR)

SUBMITTED: August 1, 1959

Card 2/2

KUZ'MICHEV, P.; GAZARYAN, A., prepodavatel'.

Organization of practical training. Prof.-tekh.obr.12 no.2:8-10
F '55.
(MIRA 8:5)

1. Direktor remeslennogo uchilishcha po mekhanizatsii sel'skogo
khozyaystva No.20 (Moskovskaya oblast') (for Kuz'michev).
     (Technical education) (Manual training)

GAZAZYAN, A.D.; CHALTYKYAN, V.O.

Ionization of hydrogen atoms under intense electromagnetic
irradiation. Dokl. AN Arm. SSR 41 no.1:27-33 '65.

(MIRA 18:8)

1. Ob"yedinennaya radiatsionnaya laboratoriya AN ArmSSR i
Yerevanskogo gosudarstvennogo universiteta. Submitted January
21, 1965.

GAZAZYAN, A.D.

Nonrelativistic analogy of the Bloch-Nordsieck approximation. Izv.
AN Arm. SSR. Ser.fiz.-mat. nauk 18 no.2:128-132 '65.

(MIRA 18:6)

1. Ob"yedinennaya radiatsionnaya laboratoriya Yerevanskogo
gosudarstvennogo universiteta i AN Armyanskoy SSR.

GAZAR'YAN, A.G.

The complex of reconnaissance and construction operations. Geod.
i kart. no. 4:29-30 Ap '61.   (MIRA 14:5)
                    (Surveying)

GAZARYAN, Artem Grigor'yevich; USTENKO, V.L., red.; PETROPOL'SKAYA,
N.Ye., red.; DURASOVA, V.M., tekhn. red.

[Our experience in the use of hydrocyclone installations]
Nash opyt primeneniia gidrotsiklonnykh ustanovok. Kuibyshev,
Kuibyshevskoe knizhnoe izd-vo, 1962.   22 p.
                                             (MIRA 17:1)

YUZBASHEV, Lev Gerasimovich; GAZARYAN, A.N., inzh., nauchnyy red.;
    KAPLAN, M.Ya., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Designing and building large-panel houses] Opyt proektiro-
vaniia i stroitel'stva krupnopanel'nykh domov. Leningrad, Gos.
izd-vo lit-ry po stroit.materialam, 1959. 144 p.   (MIRA 12:12)
    (Apartment houses)   (Concrete slabs)

GAZARYAN, A.S., sanitarnyy vrach; KOZIYAN, Kh.A., sanitarnyy vrach

    Appliance for washing milkmaids' hands and cows' udders. Gig. i
    san. 21 no.4:56-57 Ap '56.   (MLRA 9:7)

    1. Iz Agdamskoy rayonnoy sanitarno-epidemiologicheskoy stantsii
        (MILK,
            hyg. appliance for washing of hands & udders (Rus))

VINOKUROV, V. A., kand. tekhn. nauk; GAZARYAN, A. S., inzh.

Residual stresses in very thick laminated seams. Izv. vys. ucheb. zav.; mashinostr. no.7:147-154 '62.
(MIRA 16:1)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.

(Welding)   (Strains and stresses)

GAZARYAN, A.S., vrach

Effectiveness of the decolorization reaction of methylene blue in
malignant neoplasms. Azerb. med. zhur. no.8:61-62 Ag '61.
(MIRA 15:2)

1. Iz kliniko-diagnosticheskoy laboratorii (zav. - A.S.Gazaryan)
Stepanakertskoy oblastnoy polikliniki (glavnyy vrach - Sh.P.Daniyelyan).
(CANCER)   (METHYLENE BLUE)

18(7)

SOV/125-12-6-3/14

AUTHOR: Kurkin, S.A. and Fishkis, M.M., Candidates of Technical
            Sciences, Vinokurov, V.A., Gazaryan A.S., Engineers

TITLE: Measuring of Deformation and Stress at the Welding of
            Elements with great Thickness made of St. 3

PERIODICAL: Avtomaticheskaya svarka, 1959, Vol 12, Nr 6 (75)
            pp 22-27   (USSR)

ABSTRACT: The article presents the description of experiments
            on the definition of quantity and character of residual
            stress in steel-samples of great thickness, welded the
            "electric slag" way. The experiments were made by the
            welding laboratory of MVTU imeni Baumann, together with
            the Moscow automobile plant imeni Likhachev. The expe-
            riments were made to study: 1) The development of de-
            formations in large   size   welded joints in course
            of time, 2) The field of residual stress in buttwelds
            of elements with great thickness, 3) The taking down
            of residual stress by heat treatment. The deformations
            in course of time were produced by a mechanical press

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SOV/125-12-6-3/14

Measuring of Deformation and Stress at the Welding of Elements
with great Thickness made of St.3

with a strength of 3.5 thousand tons (fig. 1 and 2).
The material of all samples was a low carbon steel of
type " St 3 with following chemical compounds: 0.14-
0.22% C, 0.40-0.65% Mn, 0.12-0.30% Si, not more than
0.055% S and less than 0.05% P.The mechanical quali-
ties of the steel were: σ_A = 38-41 Kg/mm^2, σ_1 = 24 kg/
mm^2 and δ = 27%. The experimental investigation of
triaxial stress showed, that the theoretical calcula-
tion (Ref. 2) does not correspond with the results of
the experiment. A deformation along the welds in not
loaded constructions, made of elements of great
thickness, during a considerable length of time (ca.
60 times within 2 months) was not observed. It is dif-
ficult to say anything about the possibilities of de-
formation over longer periods of time. The average
stress σ_{10} in all bands of unannealed samples was not

Card 2/3   higher than 300 Kg/cm^2 (Fig 3). There are 2 diagrams

SOV/125-12-6-3/14

Measuring of Deformation and Stress at the Welding of Elements with great Thickness made of St. 3

1 graph, 1 equation and 7 references, 5 of which are Soviet and 2 English

ASSOCIATION: MVTU im. Baumana (MVTU imeni Bauman)(Kurkin, Vinokurov,Gazar-yan); avtozavod im. Likhacheva (Automobile Plant imeni Likhachev)(Fishkis).

SUBMITTED: February 25, 1959

Card 3/3