VOROB'YEV, V.A., doktor tekhnicheskikh nauk, professor; GRIGOR'YEV, P.N.,
doktor tekhnicheskikh nauk, professor, redaktor; GRINBERG, I.F.,
redaktor; PANOVA, L.Ya., tekhnicheskiy redaktor

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i perer. Pod red. P.N.Grigor'eva. Moskva, Gos. izd-vo lit-ry po
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KOLOKOL'NIKOV, Vadim Sergeyevich, kandidat tekhnicheskikh nauk;
SKAVRONSKIY, Boris Ivanovich, kandidat tekhnicheskikh nauk, redakter.
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KOLOKOL'NIKOV, V.S., dotsent, kandidat tekhnicheskikh nauk; IVANOV,
O.M., kandidat tekhnicheskikh nauk, retsenzent; SHCHEPETOV, A.M.,
kandidat tekhnicheskikh nauk, nauchnyy redaktor; GORSHKOV, A.P.,
redaktor izdatel'stva; TOKER, A.M., tekhnicheskiy redaktor

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Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 284 p.
         (Building materials)   (MIRA 10:3)

VOROB'YEV, V.A., doktor tekhnicheskikh nauk, professor; KOLOKOL'NIKOV,
V.S., kandidat tekhnicheskikh nauk.

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railroad system." M.A. Persiianov. Reviewed by V.A. Vorob'ev,
V.S. Kolokol'nikov). Transp.stroi. 6 no.5:31-32 My '56.(MIRA 9:8)
(Building materials) (Railroad engineering)

VOROB'YEV, Vasiliy Aleksandrovich, prof. doktor tekhn.nauk; KOLOKOL'NIKOV,
Vadim Sergeyevich, dots., kand.tekhn.nauk; SHCHEPETOV, A.M.,
nauchnyy red.; GURIN, A.V., red.; RAKOV, S.I., tekhn.red.

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stroitelei. Moskva, Vses. ucheb.-pedogag. izd-vo Trudrezervizdat,
1957. 278 p.   (MIRA 11:4)
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VOROB'YEV, V.A., prof., doktor tekhn.nauk; POPOV, L.N., dots., kand.tekhn.
nauk.

A new effective technique of making cellular concretes. Gor.khoz.
Mosk. 31 no.11:27-30 N '57.   (MIRA 10:12)
                          (Concrete)

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Moskva, Izd-vo "Znanie," 1959. 31 p. (Vsesoiuznoe obshchestvo
po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser. 4.
Nauka i tekhnika, no.2)   (MIRA 12:2)
                    (Building materials)

L 32699-66   EWT(d)/EWT(m)/EWP(c)/EWP(v)/T/EWP(k)/EWP(1)   IJP(c)

ACC NR: AP6014422   (A)   SOURCE CODE: UR/0381/65/000/005/0033/0037

AUTHOR: Vorob'yev, V. A.

ORG: Tomsk Polytechnic Institute im. S. M. Kirov (Tomskiy politekhnicheskiy institut)

TITLE: Radiation defectoscopy of construction materials and of structures by means of betatron bremsstrahlung

SOURCE: Defektoskopiya, no. 5, 1965, 33-37

TOPIC TAGS: concrete, betatron, bremsstrahlung, flaw detection

ABSTRACT: The application of betatron bremsstrahlung to the detection of defects in reinforced concrete is described. The present work is an extension of earlier work by the author (Kandidatskaya dissertatsiya, Tomskiy politekhn. inst., 1965). The experimental results are presented graphically (see Fig. 1). It is concluded that by means of stereo-betatron bremsstrahlung it is possible to detect flaws in reinforced concrete and also to determine displacements of reinforcing rods in the concrete structure of up to 1.5 thickness.

UDC: 620.179.16

Card 1/2

L 32699-66

ACC NR: AP6014422

Fig. 1. Dependence of detection of steel
rods on the thickness of the con-
crete by means of betatron
bremsstrahlung of maximum energy
of 30 Mev. 1 - concrete; 2 - steel.
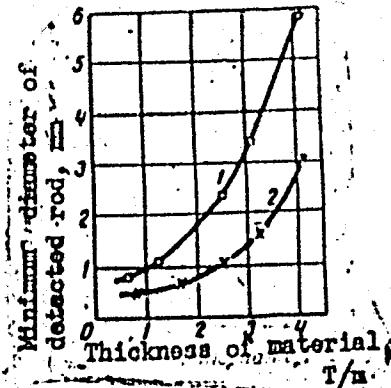
Orig. art. has: 4 graphs.

SUB CODE: 11,13/ SUBM DATE: 02Jun65/ ORIG REF: 005/ OTH REF: 001

Card 2/2   BLC

L 38511-66   EWT(m)/T/EWP(t)/ETI   IJP(c)   JD/JG

ACC NR: AP6018767   SOURCE CODE: UR/0070/66/011/003/0398/0400

AUTHOR: Vorob'yev, V. A.

ORG: Tomsk Polytechnic Institute im. S. M. Kirov (Tomskiy politekhnicheskiy institut)

TITLE: Absorption of a narrow bundle of bremsstrahlung with a maximum energy of 200 thousand electron volts in monocrystalline alkali-halides

SOURCE: Kristallografiya, v. 11, no. 3, 1966, 398-400

TOPIC TAGS: bremsstrahlung, alkali halide, absorption, potassium chloride, potassium bromide, potassium compound, iodide, absorption coefficient, crystal surface

ABSTRACT: The article describes the dependence of the absorption of bremsstrahlung in monocrystalline potassium chloride, potassium bromide, and potassium iodide on the thickness of the sample, taking into account the change in the spectral composition of the radiation in passing through the crystal. If ΔE_0 is the energy of the primary radiation absorbed in a surface layer of the crystal Δx, and ΔE_i is the energy absorbed in the crystal layer Δx, separated from the surface by a thickness of crystal x_i, then ΔE_i can be determined, with the condition that the number of quanta on the surface of both layers is equal to the following expression:

$$\Delta E_i = \Delta E_0 \frac{\mu_i}{\mu_0} = k \cdot \Delta E_0,$$

UDC: 548.0

Card 1/2

L 38511-66

ACC NR: AP6018767

where μ_1 is the coefficient of absorption, determined for a layer of crystal with a thickness of Δx at a depth x_i; μ_o is the coefficient of absorption, determined for a surface layer of the crystal with a thickness Δx. The article gives a figure showing the values of the correction coefficient k, calculated from experimental data on measurements of the absorption coefficients for bremsstrahlung with a maximum energy of 200 thousand electron volts in potassium chloride, potassium bromide, and potassium iodide. Orig. art. has: 2 figures.

SUB CODE: 07, 20/ SUBM DATE: 20Apr65/ ORIG REF: 004/ OTH REF: 001

Card 2/2 llb

L 02017-67   EWP(c)/EWP(k)/EWT(d)/EWT(m)/T/EWP(1)/EWP(v)/EWP(t)/ETI   IJP(c)   JD/HW

ACC NR: AM6005023   (N)   Monograph   UR/77

Vorob'yev, A. A.; Gorbunov, V. I.; Vorob'yev, V. A.; Titov, G. v,   76

Betatron defectoscopy of materials and products (Betatronnaya defektoskopiya B+/
materialov i izdeliy) Moscow, Atomizdat, 65. 0177 p. illus., biblio. 2,000
copies printed.

TOPIC TAGS: spectroscopy, spectroscopic analysis, spectrophotometric analysis, beta
spectroscopy, beta rays, beta beams, electron density, electron emission, electron
detection, electron flaw, electron energy, particle beam

PURPOSE AND COVERAGE: This book describes the principles of exploitation of inductive
electron accelerator - betatrons in defectoscopy of plated materials and industrial
articles. Different methods of betatron defectroscopy are described, as well as
their possibilities and deficiencies. This book is a oractical handbook for indus-
trial workers working on problems of defectroscopy of plated materials and other
articles, as well as for the candidates and scientists working in the field of
defectroscopy.

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Introduction—3
Weakening of emmitting rays as they travel through the matter—6
Physical processes as brake rays travel through materials—13

Card 1/3   UDC:620.179.15+621.384.613

L 02017-67

ACC NR: AM6005023

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ACC NR: AM6005023

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SUB CODE: 20, | | SUBM DATE: 20Jul65/ ORIG REF: 033/ OTH REF: 014

Card 3/3

ACC NR: AM6012201   Monograph   UR/

Vorob'yev, Vasiliy Aleksandrovich (Honored Scientist, Doctor of Technical Sciences, Professor)

Technology principles of construction materials made from plastics (Osnovy tekhnologii stroitel'nykh materialov iz plasticheskikh mass) Moscow, Izd-vo "Vysshaya shkola", 65. 0323 p. illus., biblio. 14,000 copies printed.

TOPIC TAGS: general construction, structural materials, synthetic material, heat resistant materials, structural plastics, polymer, conjugated polymer, polymer physical chemistry

PURPOSE AND COVERAGE: This is a textbook intended for students at engineering faculties and construction institutes of higher learning. It deals with the technology of the most important construction materials made from plastics, which are either in use, or are intended for introduction into industry in the future. The polymer technology is described briefly in this book, nevertheless, there is enough of material to be used in the production organization of polymer processing into construction materials and parts. The study of raw and ready made materials in this book is barely touched upon, since these problems are treated in a special (textbook) used during a special lab course approved by the board of education for the construction-engineering faculties.

Chapters I, II, IV, VI, VII, and the introduction were written by the Doctor of Technical Sciences, Professor, V. A. Vorob'yev; chapter III, was written by the

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ACC NR: AM6012201

Candidate of Technical Sciences, Docent, G. P. Fedoseyev, and Chapter V, was written by the Candidate of Technical Sciences, R. A. Andriyanov.

TABLE OF CONTENTS (abridged):

SUB CODE: 11,07/ SUBM DATE: 05Jul65/ ORIG REF: 036

Card 2/2

ACC NR: AM5008336   (A)   Monograph   UR/

Vorob'yev, Vasiliy Aleksandrovich (Honored Scientist and Technologist; Professor; Doctor of Technical Sciences)

Manufacture and use of plastics in construction (Proizvodstvo i primeneniye plastmass v stroitel'stve) Moscow, Stroyizdat, 65. 0234 p. illus., biblio. Textbook for students at civil engineering institutes and faculties. Errata slip inserted. 13,000 copies printed.

TOPIC TAGS: plastic industry, heat resistant material, construction material, general construction, polymer physical property

PURPOSE AND COVERAGE: This textbook deals, in short, with the history of the development of technology of the plastic materials. The properties of plastic materials used in construction are also described. Described are different groups of polymer construction materials which are highly in use in construction technology, or are being considered for the introduction into the construction technology. These materials are for walls (wood shaving, wood fibrous slabs, thick plastic, coated slabs and wall panneling); materials for floors are (lynoleums, and tiles); heat and sound proof materials (penopolystyrene, penopolyvynicholorid, mipor, penopolyuteran and others). Group for roofing airtight materials is (glassplastic, izol and polymer slabs)
The book ends with the description of molded products (baseboards, handrails and

UDC: 678.5(0758)+691.175(0758)

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ACC NR: AM5008336

others), pipes and sanitary installations made on the polymer bases. The information based on the technology of their manufacture, properties and features in construction application is given. This handbook is intended for students of civil and sanitary-technical faculties of construction institutes. It can be of interest to engineerings and technicians, as well as for qualified construction workers.

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SUB CODE: 11, 13 / SUBM DATE: 08Jul65/ ORIG REF: 037/   OTH REF: 011/

Card 2/2

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Effect of low soil temperatures at the beginning of vegetation
on nitrogen fixation by forage teans in relation to the amount
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Using radiation defectoscopy of building materials and structures with betatron bremsstrahlung. Defektoskopiia no. 5:33-37 '65   (MIRA 19:1)

1. Tomskiy politekhnicheskiy institut imeni Kirova.

VOROB'YEV, V.A., inzh.; GORBUNOV, V.I., inzh.; POKROVSKIY, A.V., inzh.

Scintillation indication method for the flaw detection in thick-walled welded joints by bremsstrahlung of a betatron. Svar. proizv. no.7:14-15 Jl '65.
(MIRA 18:8)

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KORGVIN, A.I.; VOROB'YEV, V.A.; KURETS, V.K.

Thermal-vegetative chambers with the regulation of soil and
air temperature for experiments with plants. Izv. SO AN SSSR
no.12; Ser. biol.-med. nauk no.3:141-144 '64.   (MIRA 18:6)

1. Vostochno-Sibirskiy biologicheskiy institut Sibirskogo
otdeleniya AN SSSR, Irkutsk.

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Causes of converter slag frothing during nickel matte processing.
TSvet. met. 38 no.4:39-40 Ap '65.
(MIRA 18:5)

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236-237 '65.   (MIRA 18:7)

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SHAKHMURADOV, M.K.; VOROB'YEV, V.A.; ZEYNALOV, B.K.;/
     MAMEDALIYEV, G.M.; ALIYEV, S.M.

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Absorption of betatron bemsstrahlung by crystals of alkali halide
salts of great thickness. Izv. vys. ucheb. zav.; fiz. 8 no.2:174-175 '65.
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niki, prof., doktor tekhn. nauk. Prinimali uchastiye: FEDOSEYEV,
G.P. dots., kand. tekhn. nauk; ANDRIANOV, R.A., kand. tekhn.
nauk

[Manufacture and use of plastics in building] Proizvodstvo i
primenenie plastmass v stroitel'stve. Moskva, Stroiizdat,
1965. 234 p.   (MIRA 18:9)

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doktor tekhn. nauk prof.; Prinimali uchastiye: FEDOSEYEV,
G.P., kand. tekhn. nauk, dots.; ANDRIANOV, R.A., kand.
tekhn. nauk; KOSHKIN, V.G., nauchn. sotr., kand. tekhn. nauk
retsenzent; MARTYNOV, A.P., red.

[Principles of the technology of plastic building materials]
Osnovy tekhnologii stroitel'nykh materialov iz plastiche-
skikh mass. Moskva, Vysshaia shkola, 1965. 323 p.
                                        (MIRA 18:9)
1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh
stroitel'nykh materialov (for Koshkin).

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International Colloquium on Betatrons. Atom. energ. 18 no.2:
192-193 F '65.   (MIRA 18:3)

KOROVIN, A.I.; VOROB'YEV, V.A.

Effect of low soil temperature at the beginning of vegetation
on the growth of leguminous plants and the formation of tubers
on their roots. Izv. SO AN SSSR no.8 Ser. biol-med. na~'~ ~~.2:
29-32 '64   (MIRA 18:1)

1.Vostochno-Sibirskiy biologicheskiy institut Sibirskogo otde-
leniya AN SSSR, Irkutsk.

VOROB'YEV, V.A., doktor tekhn. nauk; BYKOV, A.S., inzh.

Stopping the shrinkage of linoleum by the impregnation method. Strol. mat. 10 no.8:10-11 Ag '64.   (MIRA 17:12)

Card 1/2

VOROB'YEV, Vasiliy Aleksandrovich, zasl. deyatel' nauki i tekhniki
RSFSR prof., doktor tekhn. nauk; Prinimali uchastiye:
MIKUL'SKIY, V.G., kand. tekhn. nauk, dots.; GORLOV, Yu.P.,
st. propod.; MARTYNOV, A.P., red.; GARINA, T.D., tekhn.red.

[Laboratory manual for the general course on building
materials] Laboratornyi praktikum po obshchemu kursu stro-
itel'nykh materialov. Moskva, Vysshaia shkola, 1964. 297 p.
                                      (MIRA 17:4)

ACCESSION NR: AP4012271   S/0089/64/016/001/0069/0071

AUTHOR: Vorob'yev, V. A.

TITLE: The gamma-field structure of a plane isotropic source Cs^{137}

SOURCE: Atomnaya energiya, v. 16, no. 1, 1964, 69-71

TOPIC TAGS: gamma-field, scattered radiation, isotropic source, angle function, air-equivalent medium, gamma-quanta, hard quanta, cutoff boundary, integral intensity, momentum method, half space, Cs^{137}

ABSTRACT: The semi-analytical Monte Carlo method has been used to calculate the spectral angle function of a scattered gamma-radiation from an infinite plane isotropic source Cs^{137} ($E_0 = 0.661$ Mev) in an air-equivalent medium at distance H (H equals 0.5, 1 and 2 free paths) from the source. The surface density of the source activity was taken as 1 quantum/cm^2.sec. A clearly outlined peak with a maximum in the E = 0.3 Mev region is observable at short distances from the source (H = 0.5). An analytical calculation of the spectral-angular distribution of a singly scattered gamma-radiation revealed

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ACCESSION NR: AP4012271

that the mentioned peak was formed by first generation gamma-quanta
scattered at a~70° angle. A rapid growth of intensity in the soft
region is noted when angle a is increased to above 90° in the gamma-
radiation spectrum. In the integral energy intensity, the share
of the gamma-radiation coming from the rear half space amounts to
about 26% for distances equal to 0.5 and 1 path, and drops to 21%
with H = 2.
"In conclusion, the author thanks R. M. Kogan and I. M. Nazarov for
their valuable comments, and G. N. Kas'yanov for his assistance in
the calculations."
Orig. art. has: 3 Figures and 1 Formula.

ASSOCIATION: None

SUBMITTED: 03May63   DATE ACQ: 14Feb64   ENCL: 00

SUB CODE: PH   NR REF SOV: 002   OTHER: 003

Card   2/2

VOROB'YEV, V.A.

Structure of the gamma field of a Cs^{137} plane isotropic source. Atom. energ. 16 no.1:69-71 Ja '64. (MIRA 17:2)

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Astron.zhur. . 40 no.6 :1016-1024 N-D '63.   (MIRA 16:12)

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universiteta.

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VOROB'YEV, Vasiliy Alekseyevich; MAYSKAYA, N.I., red.;
PYATAKOVA, N.D., tekhn. red.

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s bukhgalterskimi mashinami Askota. Moskva, Gosstatizdat,
1963. 139 p.   (MIRA 17:2)

VOROB'YEV, V.A., inzh.

Methods of construction and count in the manufacture of woolen grey fabrics. Nauch.-issl.trudy TSNIIShersti no.16:73-91 '61.
(MIRA 16:11)

Source: Atomnaya energiya, v. 15, no. 1, 1963, 68-70

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[Protection of people's property is a sacred duty of
every Soviet citizen] Okhrana narodnoi sobstvennosti -
sviashchennyi dolg kazhdogo sovetskogo grazhdanina.
Ashkhabad, Ob-vo po raspr. polit. i nauchn. znanii
Turkmenskoi SSR, 1962.   40 p.   (MIRA 16:9)
                    (Socialist property)

MALININ, Yu.S., kand.tekhn.nauk; KEL'TSEVA, Z.A., inzh.; VOROB'YEV, V.A., inzh.

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                              (Cement--Analysis)

VOROB'YEV, V.A.

       Organization of a public health administration in a consolidated
rural district. Zdrav.Ros.Feder. 7 no.3:4-9 Mr '63.

                                              (MIRA 16:3)

1. Zaveduyushchiy Leningradskim oblastnym otdelom zdravookhraneniya.
            (PUBLIC HEALTH, RURAL)

VOROB'YEV, V.A., inzh.; KHONYAKIN,R.F., inzh.

Some problems in the mechanization of drilling operations. Bezop.truda
v prom. 7 no.2:14 F '63.   (MIRA 16:2)

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Sovete Ministrov RSFSR po nadzoru za bezopasnym vedeniyem rabot v
promyshlennosti i gornomu nadzoru.
                    (Oil wells—Equipment and supplies)

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fullness of the fabric. Tekst.prom. 22 no.10:47-49 O '62.
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sherstyanoy promyshlennosti.
                            (Weaving)

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Alekseyevich, dots.; VOROB'YEV, V.A., prof., retsenzent;
KHIGEROVICH, M.I., prof., retsenzent; IVANOV, O.M., dots.,
retsenzent; RUFFEL', N.A., dots., retsenzent; KOKIN, A.D.,
retsenzent; ZHELUDKOV, V.I., inzh., nauchnyy red.; LYTKINA,
L.S., red.izd-va; KASIMOV, D.Ya., tekhn. red.

[Finishing materials and operations]Otdelochnye materialy i
raboty. Moskva, Gosstroiizdat, 1962. 275 p. (MIRA 15:7)

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instituta im. V.V.Kuybysheva (for Vorob'yev). 2. Kafedra
"Stroitel'nyye materialy "Moskovskogo inzhenerno-stroitel'nogo
instituta im. V.V.Kuybysheva (for Khigerovich, Ivanov).
3. Kafedra "Tekhnologiya stroitel'nogo proizvodstva "Moskovskogo
inzhenerno-stroitel'nogo instituta im. V.V.Kuybysheva (for
Ruffel'). 4. Glavnyy inzhener Upravleniya otdelochnykh rabot
Glavnogo upravleniya po stroitel'stvu i vosstanovleniyu zhe-
leznodorozhnykh mostov (for Kokin).
    (Building--Details)

VOROB'YEV, Vasiliy Aleksandrovich, zasl. deyatel' nauki i tekhniki
RSFSR, doktor tekhn. nauk; KOLOKOL'NIKOV, Vadim Sergeyevich,
kand. tekhn. nauk; Prinimal uchastiye FEDOSEYEV, G.P., inzh.;
SHUBENKIN, P.F., prof., nauchnyy red.; LAFAZAN, M.I., red.;
DORODNOVA, L.A., tekhn. red.; PERSON, M.N., tekhn.red.

[Study of materials for masons and concrete workers]Materialo-
vedenie dlia kamenshchikov i betonshchikov. Moskva, Proftekh-
izdat, 1962. 250 p.   (MIRA 15:11)
                    (Building materials)

VOROB'YEV, V.A., doktor tekhn.nauk; SMELYANSKIY, V.L., inzh.

Polymer-cement mortars for fastening ceramic facing. Stroi.
mat. 8 no.6:34-36 Je '62.   (MIRA 15:7)
        (Polymers)   (Mortar)   (Facades)

YEVDOKIMENKO, A.I.; ZABEREZHNYY, I.I.; RAFALOVICH, I.M.; REZNIK, I.D.;
    Prinimali uchastiye: SHERMAN, B.P.; KUDRIN, A.N.; GALITSKIY, L.M.;
    SERPOV, V.I.; VOROB'YEV, V.A.; STEPANOV, A.S.; RODIONOVA, N.M.;
    BUNTOVNIKOV, A.S.; YEVDOKIMOVA, L.Ye.

Air blast preheating for shaft furnaces. Tsvet. met. 33 no.10:12-
20 O '60.   (MIRA 13:10)

1. Gosudarstvennyy institut po tsvetnym metallam (for Yevdokimenko,
Zaberezhnyy, Rafalovich, Reznik, Rodionova, Buntovnikov, Yevdokimova).
2. Yuzhno-Ural'skiy nikelevyy zavod (for Sherman, Kudrin, Galitskiy,
Serpov, Vorob'yev, Stepanov).
                    (Air preheaters)
        (Metallurgical furnaces--Equipment and supplies)

VOROB'YEV, V.A., starshiy nauchnyy sotrudnik

Design and construction method of loom state fabric specimens.
Tekst.prom. 22 no.4:44-47 Ap '62.   (MIRA 15:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut sherstyancy
promyshlennosti (TSNIIShersti).
                         (Weaving)

15.8000

S/191/62/000/009/001/012
B101/B144

AUTHORS: Vorob'yev, V. A., Andrianov, R. A.

TITLE: Continuous production of foam polystyrene directly from the
             monomer

PERIODICAL: Plasticheskiye massy, no. 9, 1962, 6 - 9

TEXT: A method is described whereby azo-bis (isobutyro nitrile) (Porofor
ЧХЗ-57 (ChKhZ-57)) acts as initiator of the styrene polymerization, and
simultaneously as foaming agent by liberation of N_2. 3 - 7% Porofor
are dissolved in styrene, heated to 60 - 75°C and pressed at 10 atm into
the polymerization coil to prevent premature foaming. Along the
polymerizer the temperature is raised from 80 to 100°C. From the
polymerizer the material reaches an extruder where gas is made to form
rapidly by heating to 120 - 140°C and foaming takes place in the funnel-
shaped outlet. Products of various shapes can be obtained by designing
the outlet accordingly. In the case of flat products (plates) a pressure
compensation chamber is provided between extruder and outlet. Foam
polystyrenes with a density of 0.01 - 1.0 g/cm³, compression strength
Card 1/2

S/191/62/000/009/001/012
B101/B144

Continuous production of foam...

20.0 kg/cm^2, impact strength 0.8 kg/cm^2, and water absorption 0.08% by weight after 24 hr were produced. Foam plastics of vinyl acetate, methyl methacrylate and their copolymers with styrene got by this method are now being tested at present. As complete automation is possible there need be no risk to the operators from the development of toxic tetramethyl succinodinitrile. There are 4 figures and 1 table.

Card 2/2

VOROB'YEV, V.A., starshiy nauchnyy sotrudnik

Method of design and calculation of loom-state fabrics. Tekst.prom.
22 no.3:59-62 Mr '62.   (MIRA 15:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut sherstyanoy
promyshlennosti.
                        (Textile fabrics)

SINYAKOV, A.B.; VOROB'YEV, V.A. (Leningrad)

"IL" photoelectronic machine for the measurement of pattern
surfaces. Shvein.prom. no.5:9-10 Jl-Ag [i.e.S-0] '61.
(MIRA 14:10)

(Photoelectric measurements)
(Clothing industry--Equipment and supplies)

VOROB'YEV, Vasiliy Aleksandrovich, prof., doktor tekhn.nauk, zasluzhennyy deyatel' nauki i tekhniki RSFSR. Prinimali uchastiye: GLYBIN, V.S., starshiy prepodavatel'; DENISOV, A.A., kand.tekhn.nauk, dotsent; KOMAR, A.G., kand.tekhn.nauk, dotsent; FEDOSEV, G.P., starshiy prepodavatel'. MARTYNOV, A.P., red.; VORONINA, R.K., tekhn.red.

[Building materials] Stroitel'nye materialy. Izd.3., rasshirennoe i perer. Moskva, Vysshaia shkola, 1962. 496 p.
(MIRA 15:5)

(Building materials)

VOROB'YEV, V.

    State Bank objectives in the further consolidation of currency
circulation. Den. i kred. 19 no.7:3-13 Jl '61.   (MIRA 14:7)
                    (Money)

KHONYAKIN, R.F., inzh.; VOROB'YEV, V.A., inzh.

More attention to the improvement of oil well drilling rigs. Bezop. truda v prom. 4 no. 5:16 My '60. (MIRA 14:5)

1. Upravleniye Nizhne-Volzhskogo okruga Gosgortekhnadzora RSFSR.
(Oil well drilling rigs—Technological innovations)

KARASEV, K.I., kand. khim. nauk; MEDVEDSKAYA, Ye.A., insh.; MAMUROVSKIY,
A.A., otv. red.; POPOV, A.N., red.; VOROB'YEV, V.A., prof., doktor
tekhn. nauk, zasl. deyatel' nauki, red.; SHITOVA, L.N., red. izd-
va; RYAZANOV, P.Ye., tekhn. red.

[Instructions for using organic and emulsion thinners for oil
pigment pastes in construction] Instruktsiia po primeneniiu v
stroitel'stve organicheskikh i emul'sionnykh razbavitelei dlia
gustotertykh maslianykh krasok. Moskva, Gos.izd-vo lit-ry po
stroit., arkhit. i stroit. materialam, 1960. 8 p. (MIRA 15:1)

1. Akademiya stroitel'stva i arkhitektury SSSR. Vsesoyuznyy
nauchno-issledovatel'skiy institut novykh stroitel'nykh mate-
rialov. 2. Chlen-korrespondent Akademii stroitel'stva i arkhi-
tektury SSSR (for Mamurovskiy). 3. Deystvitel'nyy chlen Akademii
stroitel'stva i arkhitektury SSSR (for Popov).
              (Thinner (Paint mixing))

VOROB'YEV, V. A., Dr. Medic. Sci.   (diss) "Contact Photographic
Impression of Mucuous Coating as Method of Diagnosis of Diseases
of the Stomach," Leningrad, 1961, 22 pp. (1st Leningrad Medic.
Inst.) 300 copies (KL Supp 12-61, 282).

VOROB'YEV, V.A.

Cooperative work of a province department of public health with
medical and research institutes. Zdrav. Ros. Feder. 4 no.6:22-
26 Je '60.   (MIRA 13:9)

1. Zaveduyuchshiy Leningradskim oblastnym otdelom zdravookhraneniya.
          (LENINGRAD PROVINCE—MEDICAL CARE)

VOROB'YEV, V.A., zasluzhennyy vrach BSSR

Torsion of the gall bladder in a four-year-old child. Zdrav.Belor.
5 no.12:49-50 D '5:.   (MIRA 13:4)

1. Iz khirurgicheskogo otdeleniya Lidskoy gorbol'nitsy (glavnyy
vrach M.G. Shabanov).
                    (GALL BLADDER--DISEASES)

VOROB'YEV, V...

Photogr_ his _eth_d _or _he _arly di_gnosis of stomach cancer.
Zhur._ou_k. i _rik_._d. i _i_. _ no.4:292-295 Jl-Ag '5_.
(MIR. 12:11)

1. P_li_t_icheskiy _._itsinskiy institut, Leningrad.
(PHOTOGRAPHY, MEDICAL)   (STOMACH--CANCER)

UKHOV, B.S., prof., doktor tekhn.nauk [deceased]; VOROB'YEV, V.A., prof., doktor tekhn.nauk, zasluzhennyy deyatel' nauki i tekhniki; YEGOROV, Yu.A., prof., doktor iskusstvovedcheskikh nauk; STRAMENTOV, A.Ye., prof., doktor tekhn.nauk; SIROTKIN, V.P., prof., doktor tekhn.nauk; TOROPOV, A.S., dotsent, kand.tekhn.nauk; KRYLOV, B.A., kand.tekhn. nauk; SHREYBER, A.K., kand.tekhn.nauk; OSMOLOVSKIY, M.S., dotsent, kand.arkhitertury, inzh.-arkhitektor; POGODIN-ALEKSEYEV, G.I., prof., doktor tekhn.nauk, obshchiy red.; NAYMOV, N.A., dotsent, kand.tekhn. nauk, nauchnyy red.; KOKOSHKO, A.G., red.; NAUMOV, K.M., tekhn.red.

[Industrial and residential construction; textbook for higher party schools] Promyshlennoe i grazhdanskoe stroitel'stvo; uchebnoe poso-bie dlia vysshikh partiinykh shkol. Moskva, 1959.   434 p.
(MIRA 13:2)

1. Kommunisticheskaya partiya Sovetskogo soyuza. Vysshaya partiynaya shkola. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitek-tury (for Stramentov). 3. Rukovoditel' kafedry promyshlennogo proiz-vodstva i stroitel'stva Vysshey partiynoy shkoly pri TSentral'nom komitete Kommunisticheskoy partii Sovetskogo soyuza (for Pogodin-Alekseyev.)
        (Construction industry)   (City planning)

SOV/49-59-7-7/22

AUTHOR: Vorob'yev, V. A.

TITLE: On the Possibility of Applying a Screened Detector in
Radiometric Prospecting from an Aircraft

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya,
1959, Nr 7, pp 995-1002 (USSR)

ABSTRACT: The author considers the deflection of a "recording
radiometer" where the amplitude of an anomaly A_y and
the mean deflection D_{Φ} are related, as shown by Eq (1).
It was found that the best results of recording a high
value of this relationship, i.e. a value of R , was
obtained from a deeply screened detector with an aniso-
tropic characteristic. Due to the low relationship of
the spectral field $B(\mu r)$ (Eq (2)) and the working height
of the aircraft (25-100 m), the number of pulses recorded
by the detector can be considered proportional to the in-
tensity of the γ-radiation. The intensity of the γ-field
can be defined as Eqs (3) and (4), where μr – distance
between the primary γ-quantum energy E Mev , q – volu-
metric concentration of the radioactive matter, S –
cross-section of the source of radiation, r – distance
between the detector and the source of radiation

Card 1/4

SOV/49-59-7-7/22

On the Possibility of Applying a Screened Detector in Radiometric
Prospecting from an Aircraft

$(r > 1/\mu_3)$, μ_3 and μ_B — linear coefficients of absorption of the primary γ-radiation in rocks and air, respectively, k — coefficient describing the nature of the radioactive matter, β — angle between the perpendicular to the earth's surface and the direction to the source. The value of $qS/2\mu_3$ in Eq (4) represents the energy of the source, and the last term in the square brackets represents the inclination factor. The intensity I_{source} in the case of uranium and thorium can be calculated within 10% accuracy from Eq (5), where $A(h)$ — intensity of the γ-field at the height h . The value of the recorded intensity $I_3(h, \Omega)$ (Ω — angle of detector) can be calculated from Eqs (6) and (7) or Eqs (8) and (9) for the height $h = 25-100$ m or a mean height $h = 50$ m, respectively.

Card 2/4

SOV/49-59-7-7/22

On the Possibility of Applying a Screened Detector in Radiometric
Prospecting from an Aircraft

The function $i_3(\Omega)$ can be calculated as Eqs (11)-(13)
for various types of screen. The total ionization effect
I_Ω can be calculated from Eq (14). The data recorded by
the detector cannot represent an exact character of the
γ-field. Thus, a correction, Eq (15), should be introduced.
Then Eq (14) will take the form of Eq (16) and R will be
expressed by Eq (17) where the value of τ depends on $\mathcal{V}$
(Eq (18)). As a result of the correction, the recorded
curve (Fig 1) can be described by the function $y(x)$ in
Eqs (19) or (20) (where v - aircraft velocity). The
maximum value of $y(x)$ can be described by the recorded
amplitude as a relationship of the angle of the detector
θ and the constant time τ . The effect of a circular
screen on the recorded data can be determined when the
functions $\mathcal{V}_{ort.}$ (Eq (21)) and $i_3(\theta)$ (Eq (8)) are sub-
stituted into Eq (17). Thus the formula (23) can be der-
ived. Fig 2 illustrates the relationship (24), showing a
strong independence of R_{max} in respect of $i_{o\Phi}$.

Card 3/4   The relationship between θ_{ort} and $i_{o\Phi}$ can be defined

SOV/49-59-7-7/22

On the Possibility of Applying a Screened Detector in Radiometric
Prospecting from an Aircraft

as Eq (25). The efficiency of the results obtained can be
calculated from Eq (26). All the above calculations were
made for a detector with a vertical axis. Other cases were
not investigated but it can be stated that the function
$\Theta(\phi)$ describing the screen's bearing can be defined as
Eq (27). Thus, the value of R_{max} in respect to R_{source}
cannot differ by more than ξ (Eq (28)). Thanks are given
to R. M. Kogan and I. M. Nazarov for advice and criticism.
There are 2 figures and 14 references, of which 7 are Soviet
and 7 English.

ASSOCIATION: Akademiya nauk SSSR, Institut prikladnoy geofiziki
(Academy of Sciences USSR, Institute of Applied Geophysics)

SUBMITTED: November 9, 1958.

Card 4/4

EXCERPTA MEDICA Sec 16 Vol 7/2 Cancer   Feb   59

805.   *Diagnosis of gastric and oesophageal diseases by means of photochemical imprints of the mucosa (Russian text)* VORONEV V. A. Pediat. Med. Inst., Leningrad *Vopr. Onkol.* 1958, 4/4 (436-441) Tables 1 Illus. 4

A methylhydroquinone developer is introduced by means of a sound and left for 2 min. Then follows a 2nd sound with a special rubber balloon (stomach-shaped) covered with a photosensitive emulsion. This balloon is inflated and kept pressed against the gastric wall for 4 min. The impression of the mucosal relief thus obtained led to an incorrect diagnosis in only 3 out of 58 cases.

SOV/77-4-4-8/19

17(7)
AUTHOR: Vorob'yev, V.A.

TITLE: A Photographic Method of an Early Recognition of
                Stomach Cancer

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinemato-
                grafii, 1959, Vol 4, Nr 4, pp 292-295 (USSR)

ABSTRACT: The author presents a photographic method to invest-
                igate the human stomach. The method works by the
                principle of chemography. One gets a relief of the
                cover of the stomach of a living person. For this
                purpose a special technical installation is elaborat-
                ed (Figure 1), which consists of a thin rubber balloon.
                This rubber balloon has the size and the shape of the
                human stomach. The outside of this "rubber stomach"
                is covered with a layer of photographic emulsion.
                The emul sion has following qualities: Photosensiti-
                vity: 7-10 GOST units, contrast factor: 2.5-3.0,
                haze stability: 8-10 min., silver contents: 6.2-6.5%,
                viscosity: 6-7 centipoise. Before the photo-balloon
Card 1/2   is put into an empty stomach, the stomach is washed

SOV/77-4-4-8/19

A Photographic Method of an Early Recognition   of Stomach Cancer

with metholhydrochinon solution of following consistence: 0.56 g methol, 0.36 g hydrochinon, 7.6 g sodium-sulphide and 100 ml boiled water. For about 4 minutes the emulsion layer gets in contact with the stomach. Malignant tumors are recognized on the balloon photograph by the more dense consistence of the image. There are 3 diagrams.

ASSOCIATION: Leningrad,Pediatricheskiy meditsinskiy institut (Leningrad Institute for Pediatric Medicine)

SUBMITTED: June 23, 1958

Card 2/2

VOROB'YEV, V.A. (Novyy Biryuzyak, Checheno-Ingushskaya ASSR).

How to simplify the counting of shield bugs. Zashch. rast. ot
vred. i bol. 3 no.5:40 S-O '58.   (MIRA 11:10)
                         (Eurygasters)

VOROB'YEV, V.A.

AUTHOR	VOROB'YEV, V.A.
TITLE	The Probability of the Re-charge of Nucleons with the Energy $3.10^9 - 10^{10}$ eV on the Occasion of the Interaction with Nuclei in the Air.
	(Veroyatnost' perezaryadki nuklonov s energiyey 3.10^9-10^{10} eV pri vzaimodeystvii s yadrami vozdukha.- Russian)
PERIODICAL	Zhurnal Eksperim. i Teoret. Fiziki 1957, Vol 33, Nr 7, pp 264-265 (USSR)

56-7-40/66

ABSTRACT   On the occasion of the interaction of high-energy nucleons (some BeV and more) with the nuclei of the air the main part of the energy (about 70%) is carried off by a flying-off nucleon. This nucleon, in turn, produces a star. Now the dependence of the charge of this nucleon on the charge of the impinging nucleon is of interest. The protons and neutrons with the energies $3.10^9 - 10^{10}$ eV investigated here may experience the same interaction with the nuclei of the air. The probability of a re-charge of a high-energy nucleon on the occasion of the collision with a nucleus of the air is denoted here with 1-α, i.e. α denotes the probability that the greatest part of the energy of the star produced by the proton (neutron) is carried away by a nucleon-active proton (neutron). The deviation from the direction of the primary nucleon is neglected here.

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56-7-40/66

The Probability of the Re-charge of Nucleons with the
Energy $3.10^9 - 10^{10}$ eV on the Occasion of the Interaction
with Nuclei in the Air.

Here the cascade equations for the passage of the nucleons
can be solved fairly easily if it is assumed that the
energetic spectra of the nucleons do not depend upon depth.
This assumption agrees well with experimental data on
high-energy cosmic radiation. A formula is given here for
the dependence of global proton fluxes and neutron fluxes.
The absorption coefficient μ, according to the results
obtained by numerous experiments, is equal to $60g.cm^{-2}/$
120 $g.cm^{-2} = 0,5$. The existence of multiply charged nucleons
in the primary cosmic radiation (mainly He) increases the
number of protons and neutrons by the same amount which
does not depend upon α. The results of two independent
series of experiments can be used for the determination of α.
These two series of experiments are given here in detail.
In a diagram the computed fluxes of the charged energy-rich
particles for $\alpha = 0,5$ and $\alpha = 0.8$ are compared with experi-
mental data. α is apparently equal to $0,7 - C,8$.
(With 1 Illustration and 1 Table)

CARD 2/3

56-7-40/66

The Probability of the Re-charge of Nucleons with
the Energy $3.10^9 - 10^{10}$ eV on the Occasion of the Inter-
action with Nuclei in the Air.

ASSOCIATION: Institute for Applied Geophysics of the Academy of Sciences
of the USSR.
(Institut prikladnoy geofiziki Akademii nauk SSSR)
PRESENTED BY:-
SUBMITTED: 5.10.1956, re-submitted on 2.4.1957
AVAILABLE: Library of Congress.

CARD 3/3

VOROB'YEV, V.A.: SHKODNIK, M.I.

Operational velocity cycle of the KP-100-L flax tow scutching
unit. Tekst. prom. 18 no.6:50-51 Je '58.   (MIRA 11:7)

1. Glavnyy inzhener Chernigovskogo l'nopen'kotresta (for Vorob'yev).
2. Zaveduyushchiy tsentral'noy laboratoriyey Chernigovskogo
·l'nopen'kotresta (for Shkodnik).
          (Textile machinery) (Flax)

VOROB'YEV, V.A.

Overcharge probability of 3.10^9--10^{10}ev energy nucleons due to interaction with air nuclei. Zhur. eksp. i teor. fiz. 33 no.1: 264-265 Jl '57.

(MLRA 10:9)

1. Institut prikladnoy geogiziki Akademii nauk SSSR.
      (Nucleons)   (Nuclear reactions)

VOROB'YEV, V.A. (Leningrad, P-49, Bol'shay Pushkarskaya, d.1, kv. 2)

Photochemical imprint of the mucosa as method of diagnosis in diseases of the stomach & esophagus [with summary in English]. Vop. onk.4 no.4:436-441 '58   (MIRA 11:9)

1. Iz kliniki gospital'noy khirurgii (zav. - prof. A.A. Rusanov) Leningradskogo pediatricheskogo meditsinskogo instituta (dir. - prof. N.T. Shutova).
          (STOMACH, dis.
               diag., photochem. imprint of mucosa, technic (Rus))

VOROB'YEV, V.A.

Hospitals serving several districts are centers of specialized
service for the rural population. Zdrav.Ros. Feder. 2 no.8:3-9
Ag '58   (MIRA 11:10)

1. Zaveduyushchiy Leningradskim oblazdravotdelom.
      (MEDICINE, RURAL)

VOROB'YEV, Vasiliy Aleksandrovich, prof., doktor tekhn.nauk; KOLOKOL'NIKOV,
Vadim Sergeyevich, dotsent, kand.tekhn.nauk. Prinimali uchastiye:
POPOV, L.N., dotsent, kand.tekhn.nauk; GLIBIN, V.S., assistent.
SHPAYER, A.L., red.izd-va; EL'KINA, E.M., tekhn.red.

[Production of mineral binders] Proizvodstvo mineral'nykh viazhu-
shchikh. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.
materialam, 1960. 303 p.   (MIRA 13:10)
                  (Binding materials)

VOROB'YEV, V.A.

Perforation of the esophagus by a foregin body with its complete egress into the soft tissue of the neck. Zdrav.Belor. 4 no.3: 58-59 Mr '58.   (MIRA 13:7)

1. Iz khirurgicheskogo otdeleniya Lidskoy gorodskoy bol'nitsy (glavnyy vrach N.D. Mashikhina).
                    (ESOPHAGUS--FOREIGN BODIES)

VOROB'YEV, Vasiliy Aleksandrovich, zasl. deyatel' nauki i tekhniki
RSFSR, prof., doktor tekhn. nauk; Prinimali uchastiye:
KOLOKOL'NIKOV, V.S., kand.tekhn.nauk, dots.; FEDOSEYEV, G.P.,
starshiy prepodavatel'; MARTYNOV, A.P., red.; GARINA, T.D.,
tekhn. red.

[Building materials and products]Stroitel'nye materialy i de-
tali. 2., izd. rashirennoe i perer. Moskva, Gos.izd-vo
"Vysshaia shkola," 1962. 399 p.   (MIRA 16:3)
          (Building materials)

VOROB'YEV, Vasiliy Aleksandrovich, zasl. deyatel' nauki i tekhniki,
prof.; KOROVNIKOVA, Vera Vasil'yevna, kand. tekhn. nauk;
FEDOSEYEV, Georgiy Petrovich, starshiy prepodavatel';
CHERNOV, Ye., red.; USTINOVA, S., tekhn. red.

[Plastic building materials]Stroitel'nye materialy iz pla-
sticheskikh mass. [By]V.A.Vorob'ev, V.V.Korovnikova, G.P.
Fedoseev. Moskva, Mosk. rabochii, 1962. 179 p.
                                          (MIRA 16:3)

        (Building materials) (Plastics)

VOROB'YEV, Vladimir Aleksardrovich; MEN'SHENINA, V.A., red.

[Calculation methods for the construction of woolen yarn
and fabrics] Metod rascheta pri postroenii sherstianoi
priazhi i tkani. Moskva, Izd-vo "Legkaia industriia,"
1964. 162 p.   (MIRA 17:7)

VOROB'YEV, V.D.; NIKISHIN, G.I.

New data on the free-radical reaction of alcohols with olefins.
Izv.AN SSSR. Ser.khim. no.1:338-139 '66.

(MIRA 19:1)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
Submitted April 28, 1965.

86498

S/079/60/030/011/003/026
B001/B066

//. /2/0

AUTHORS: Nikishin, G. I., Vorob'yev, V. D., and Lubuzh, Ye. D.

TITLE: Physical Properties of 1,4-Dialkyl Cyclohexanes

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 11,
             pp. 3548-3554

TEXT: The authors synthesized in a previous study (Ref. 1) 1,4-dialkyl
benzenes according to the scheme

Br-⟨   ⟩-Br + 2Mg + 2RBr ----→ R-⟨   ⟩-R + 2MgBr
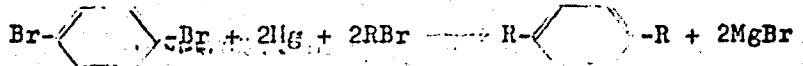
(R - normal alkyl radicals C$_4$ - C$_9$). They hydrogenated in the present
study p-dialkyl benzenes, and studied some physical properties of the
resultant 1,4-dialkyl cyclohexanes hitherto unknown. Hydrogenation was
conducted in a rotating autoclave at 210-230°C, at an initial pressure of
110-130 atm, by means of a nickel catalyst; their separation was carried
out chromatographically. After purification on a column filled with

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Physical Properties of 1,4-Dialkyl
Cyclohexanes

silica gel, the resultant dihexyl-, diheptyl-, dioctyl-, and dinonyl
cyclohexanes were recrystallized from alcohol. The melting points of
dihexyl- and diheptyl cyclohexanes were determined at a constant tempera-
ture of 0-2°C (Table 1). This table also compares the properties of the
resultant octyl- and dodecyl cyclohexanes with those of the monoalkyl
cyclohexanes corresponding to them with respect to the molecular weight.
The physical constants of 1,4-dialkyl cyclohexanes (with normal radicals)
approximately agree with those of the monoalkyl cyclohexanes corresponding
to them as to molecular weight. Diagram 1 shows the direct proportional
ratio between the melting point, D_4^{20}, n_D^{20}, and the number of carbon

atoms in the alkyl radical of 1,4-dialkyl cyclohexanes. The mean exaltation
value of the molecular refraction (ΔMR_D) is +0.10. The viscosity values

are given in Table 2 (Ref. 2). Diagram 2 gives the logarithm of the
viscosity as a function of temperature. Diagram 3 illustrates the
dependence of the logarithm of viscosity of 1,4-dialkyl cyclohexanes on
the number of carbon atoms in the alkyl radical. Diagram 4 shows the
dependence of the molar extinction coefficient $\mathcal{E}$ of the 2925 cm^{-1} band
in their molecules on the number of CH_2 groups. The infrared spectra

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Physical Properties of 1,4-Dialkyl
Cyclohexanes

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of all compounds show intense bands at 1375 and 1450 cm^{-1} corresponding to
the deformation vibrations of the CH$_3$ and CH$_2$ groups. In the spectrum of
diisoamyl cyclohexane, the 1375 cm^{-1} band is split into two bands
(1350 and 1385 cm^{-1}), which is indicative of branching. There are 5 fig-
ures, 3 tables, and 10 references: 3 Soviet, 2 US, 1 German, 5 British,
and 1 French.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR
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              USSR)

SUBMITTED: January 2, 1960

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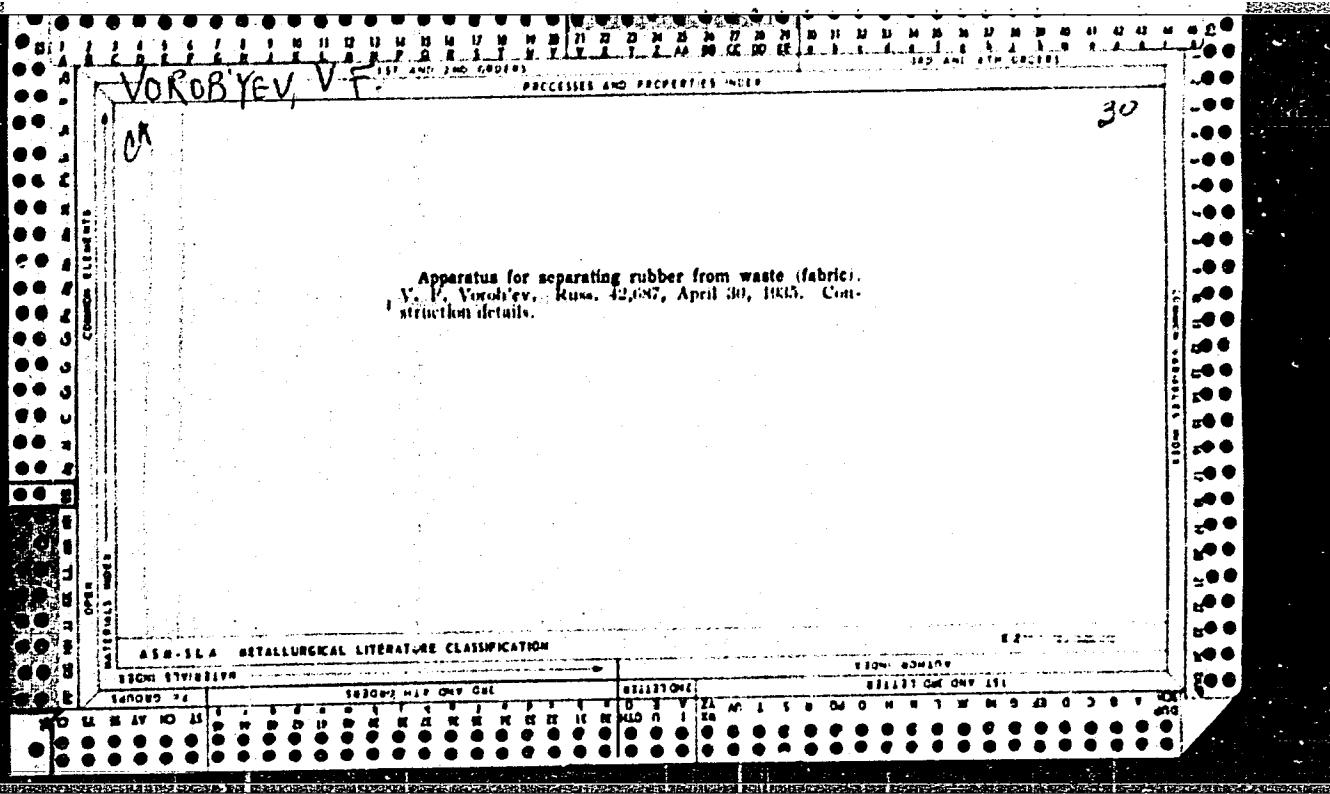
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