

HADKA, K.

The epidemiological surveillance programme. J. hyg. epidem.
(Praha) 8 no.2:137-168 '64.

1. Institute of Epidemiology and Microbiology, Prague.

RASKA, K.

Hypotheses and possibilities of using the medical and biological sciences for aiding developing countries. Cas. lek. cesk. 102 no.27/28:775-777 8 JI '63.

1. Ustav epidemiologie a mikrobiologie v Praze, reditel prof. dr. K. Raska, DrSc.

(BIOLOGY) (MEDICINE, PRIMITIVE)
(TROPICAL MEDICINE) (INTERNATIONAL AGENCIES)
(PHYSICS) (CHEMISTRY) (CYBERNETICS)

RASKA, Karel

Epidemiological data on the problem of assessing infectious occupational diseases. Prac. lek. 16 no.1:33-37 Ja'64

1. Ustav epidemiologie a mikrobiologie v Praze; reditel: prof. dr. K.Raska.

RASKA, K.; ROTT, J.

Non-specific resistance of mice to streptococcal infection induced by A streptococci or their cellular components. J.hyg. epidem. 7 no.3:319-326 '63.

1. Institute of Epidemiology and Microbiology, Prague.

RASKA, K.

On the methodological aspects of tuberculosis eradication. J. hyg. epidem., Praha 7 no.4:452-471 '63.

1. Institut of Epidemiology and Mircobiology, Prague.

RASKA, K.; TUMOVA, B.; HELCL, J.; FEDOVA, D.; PIRKOVA, Z.; PECENKA, J.;
SKVRNOVA, K.

Annual report of the Czechoslovak Influenza Centre.
J.hyg. epidem. 7 no.3:261-271 '63.

CZECHOSLOVAKIA

RASKA, K., MD, Dr of Sciences, Prof., and RADKOVSKY, J., Institute of Epidemiology and Microbiology (Ustav epidemiologie a mikrobiologie), Prague, Dr K. RASKA, director.

"Epidemiological utilization of Tuberculin Tests."

Prague, Casopis Lekarů Ceskych, Vol CII, No 39, 27 September 63, pp 1057-1061.

Abstract [Authors' English summary, modified]: Tuberculin tests may be applied to follow the spreading of tuberculosis. For this purpose standard tuberculin and standard evaluation methods are used. The method may be applied even to a population vaccinated en masse insofar the BCG vaccine provokes a comparatively low allergy. If the the performance and reading of the tests is carefully standardized and results evaluated by an epidemiological and statistical method it is possible to differentiate between the post-vaccination and post-infection allergies (infection rate). Tuberculin tests could also be important for the chemoprophylaxis of groups with an increased TB risk - i.e., the intensity of the tuberculin allergy would serve as an indicator. Moreover, tuberculin tests are indispensable for solving some important methodological problems in the TB eradication. Five references.

1/1

RASKA, Karel

Critical review of routine measures for control of viral hepatitis. Cesk. epidem. 13 no.2:65-80 8 My'64.

*

RASKA, Vladimír

RASKA, Vladimír, MUDr.; KOLAR, Jaromir, MUDr.; MATOUSEK, Jaroslav, MUDr.

Lymphosarcoma of the stomach. Cesk. roentg. 11 no.1:23-28 Mar 57.

1. Centr. rtg. odd. Kunz usti n. Labem, predn. prim. MUDr V. Raska-
Prosektura KUNZ Usti n. Labem. predn. prim. MUDr. J. Matousek.

(STOMACH NEOPLASMS, differ. diag.

lymphosarcoma, x-ray (Cz))

(LYMPHOSARCOMA, differ. diag.

stomach, x-rays (Cz))

KOLAR, Jaromir, MUDr.; RASKA, Vladimir, MUDr.

Roentgen diagnosis of cranial cholesteatoma. Cesk. roent. 10 no.
2:67-70 June 56.

1. Z centralniho rtg. odd. KUNZ Usti n. L. --Predn. prim. MUDr.
Vladimir Raska.

(CYSTS,

cholesteatoma of cranium, diploic, x-ray diag. (Cz))

(CRANIUM, cysts

cholesteatoma, diploic, x-ray diag. (Cz))

Raskai, Adalbert

Continuous preparation of tetrachlorosilane. Adalbert
Raskai und Nikolaus Nádasy (Inst. Chem. Schwerind.,
Veszprém, Hung.). *Chem. Tech. (Berlin)* 9, 483-8 (1967).
An app. for the continuous vapor phase reaction of 1:4 mole
ratios of SiCl_4 and EtOH to yield 82% $\text{Si}(\text{OEt})_4$ with a loss
of 4.7% SiCl_4 is described. Temps. from 70 to 130° may be
used.
J. P. Phillips...

4
1-4E2C(j)
1-4E3D
11 2 may

PM

RASKAI, E.

Conditions and possibilities for development of extraction of phenol in the coal processing industry. P. 75 MAGYAR KEMIKUSOK LAPJA (Magyar Kemikusok Egyesulete) Budapest Vol. 11, no. 3, March 1956

SOURCE: ESAL LC Vol. 5, no. 7, July 1956

RASKAI, Bela

The pesticide industry and research of the world with special regard to Hungary. Magy kem lap 19 no.10/11:577-583 O-N '64.

1. Research Institute of Heavy Chemical Industry, Veszprem.

HARMATHY, Laszlo; RASKAI, Bela

Application of the rotary disk extraction column in the coal processing industry. II. Obtaining extraction reach in diphenol from brown coal tar oil. Magy kem lap 16 no.5:197-200 My '61.

1. Nehezvegyipari Kutato Intezet.

HARMA:HY, Laszlo; RASKAI, Bela

Application of the rotary disk extraction column in the coal processing industry. I. Magy kem lap 16 no.4:173-177 Ap '61.

1. Nehezvegyipari Kutato Intezet.

KOVACS, Miklos (Veszprem); RASKAI, Bela (Veszprem)

Selective extraction of diphenols from lignite tar oils by methanol.
Kem.tud.kozl.MTA 12 no.4:395-403 '59. (KRAI 9:4)

1. Neheszvegyipari Kutato Intezet, Veszprem.
(Phenols) (Lignite) (Tar oils) (Methanol)

RASKAI, BELA.

✓ Coal processing industry as a present and future source of phenol (in Hungary). László Herédy, Béla Raskai, and Miklós Kovács (Nehézszeváipari Kutató Intézet, Veszprém, Hung.). *Magyar Kém. Lapja* 11, 75-82 (1938). — As there is no synthetic PhOH production in Hungary, every avenue of obtaining it as a by-product has to be explored. All phases of the Hungarian coal-processing industry were reviewed as current and potential sources for the prepn. of PhOH on an industrial scale. G. J. Kruej

1/1

3
GJK

RASKAI, B.

Conditions and possibilities for development of extraction of phenol in the coal processing industry. p. 75. MAGYAR KEMIKUSOK LAPJA (Magyar Kemikusok Egyesulete) Budapest. Vol. 11, no. 3, Mar. 1956.

SOURCE: IEAL, Vol. 5, no. 7, July 1956.

RASKAI, B.

Distr: 7E3d

57. Separation of pyridine and pyridine homologues from solutions of sodium phenolate. (In German) M. NADÁNYI, H. RÁSKAI, L. HERÉLY. *Acta Chimica Academiae Scientiarum Hungaricae*, Vol. 16, 1958, No. 2, pp. 203-213. 3 tabs.

A method was evolved for the separation of pyridine homologues obtained in the processing of coal tar. The pyridine homologues up to the present were lost in sodium phenolate solutions. The latter are blast off by steam and the formed vapour mixture is led into a fractionation column. Owing to the enrichment of pyridine in the vapour mixture the distillate shows a pyridine content of about 20%. On processing the distillate by the sulphuric acid method the yield ranges from 84 to 90% with respect to the pyridine quantity in the phenolate solution. The obtained crude product contains approximately 60% pyridine and picoline isomers.

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1/1

JK

RASKAI, B.

Distr: 4E2c(j)

Recovery of pyridine and pyridine homologs from sodium phenolate solutions. M. Nádasy, B. Ráskai, and L. Herédy (Forschungsinst. Chem. Schwermet., Veszprém). *Acta Chim. Acad. Sci. Hung.* 16, 205-13(1958)(in German).— Pyridine (I) and I homologs steam-distd. from Na phenolate solns. obtained during coal pyrolysis are recovered by fractional distn. The distillate contains 20% I and, on H₂SO₄ treatment, 81-90% yield with respect to I in the phenolate soln. results. The crude product contains about 60% I and picoline isomers. M. J. D. Low

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1/4

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RASKAI, Bela, dr.

On the coking process of the Hungarian brown coal tars in the function of temperature. I. Acta chimica Hung 33 no.2:237-249 '62.

I. Forschungsinstitut für Chemische Schwerindustrie, Veszprem, Wartha Vince u.1-3.

RASKAI, Bela, dr.

Data on the coking process of Hungarian brown coal tars as a function of temperature. II. Acta chimica Hung 33 no.3:343-358 '62.

1. Forschungsinstitut für Chemische Schwerindustrie, Veszprem, Wartha Vince u.1-3, Ungarn.

KREYBIG, Lajos (Budapest); RASKAI, Bela-(Veszprem)

Complete processing of gas liquor. Kem tud kozl MTA 16 no.1:129-130
'61.

1. Vegyimuveket Tervezo Vallalat, Budapest(for Kreybig). 2. Nehezvegyi-
pari Kutato Intezet, Veszprem(for Raskai).

(Gas liquor)

Distr: 4E3d

1

Preparation of dibenzoyl peroxide. Réka Ráskai, Miklós Nádasy, Miklós Kovács, Frigyes Henszelmann, and György Szegedi (Népkézművelődési Kutató Intézet, Veszprém, Hung.). Népkézművelődési Kutató Intézet Közleményei 1, 303-5 (1959).

Bz₂O₂ (I) was prepd. at a 80-85% yield by adding to a mixt. of BrCl (II) and 10% H₂O₂ soln. cooled to 5°, in small increments, 33% NaOH soln., allowing the temp. to increase to 20°, and stirring 3-4 hrs., with a high-speed stirrer. The crude I (contg. approx. 10% water, 5% benzoic acid (III), and NaCl) was purified by washing with 1:1 MeOH-water, filtering, and drying by aeration with hot air. The yield was low owing to the fact that the NaOH caused part of the II to hydrolyze into III. By using Na₂CO₃ instead of NaOH at a pH < 12, prepn. of 99.0% pure I was possible at a 92-87% yield. To a mixt. of Na₂CO₃ soln. and (excess) H₂O₂ II was added under stirring and the resulting crude I was purified as described above. The method was successfully used in the lab. and in pilot plant.

G. J. Eszei

1-2 (WB)

KOVACS, Miklos, Dr. (Veszprem, Wartha Vince u.1-3.); RASKAI, Bela (Veszprem, Wartha Vince u.1-3.)

Data on the selective extraction of diphenols from brown coal-tar oils by means of processing with methanol. In German, Acta chimica Hung. 21 no.3:277-287 '59. (KAI 9:5)

1. Research Institute for Heavy Chemical Industry, Veszprem, Hungary.
(Extraction (Chemistry)) (Phenols) (Lignite)
(Coal tar) (Methanol)

RASKAI, Ferenc

Shortened method based on measurements for the approximate
stressing of railroad passenger car bodies. Jarmu mezo gep
9 no.6:217-229 Je '62.

1. Tervezomernok, Wilhelm Pieck Vagon- es Gepgyar, Gyor.

RASKAI, Ferenc, tervezomernok

Examination of hot water heating in railroad cars in case
of the gravity flow of heating water. Jarmu mezo gep 10
no.7:258-261 J1 '63.

1. Wilhelm Pieck Vagon- es Gepgyar, Gyor.

RASKAROV, P. B.

187 Fiziologiya Rasteniy Sosnovami Mikrobiologii (Ucheb. Poslbiye Ilya
Lesotekhn. I Lesokhoz. Vuzov.) M., "Sov. Nauka", 1954. 376 S.
S Ill.; 16 . Ill. 22 SM. 5.000 EKZ 8r. 95K. V Per.--Bibliogr: S. 362-64
(54-54733)

P. 581.1t5768t(016.3)

SO: Knizhnaya, Letopis, Vol.1, 1955

VASILENKO, V., polkovnik zapasa, kand. filosofskikh nauk; RASKAT, M.,
polkovnik zapasa, kand. filosofskikh nauk; SEREGIN, V., polkovnik
zapasa, kand. istoricheskikh nauk; SKURIKHIN, M., polkovnik zapasa

A great military and labor victory. Komm. Vooruzh. Sil 46 no.8:88-94
Ap '65. (MIRA 18:6)

FARAFONOV, L.S.; SERIKOV, A.G.; YULINA, A.V.; RODIONOVA, N.V.,
telegrafistka, udarnik kommunisticheskogo truda;
RASKATAYEVA, M.F.; BULYGIN, I.V.

We are discussing the project of the program of the CPSU.
Vest. svyazi 21 no.9:7-9 S '61. (MIRA 14:9)

1. Nachal'nik Nauchno-issledovatel'skogo instituta telefonnoy svyazi Ministerstva svyazi SSSR (for Farafonov).
2. Glavnyy inzhener Moskovskoy gorodskoy telefonnoy seti (for Serikov).
3. Rukovoditel' brigady kommunisticheskogo truda Tsentral'nogo telegrafa SSSR (for Yulina).
4. Tsentral'nyy telegraf SSSR (for Rodionova).
5. Rukovoditel' brigady kommunisticheskogo truda Tsentral'nogo telegrafa SSSR (for Raskatayeva).
6. Glavnyy inzhener Kiyevskogo oblastnogo upravleniya svyazi (for Bulygin).

(Telecommunication)

RASKATOV, A. I.

Problems in electric engineering; electrical measurement, and electrical equipment;
textbook. Moskva, Izdatreservirovka, 1954. 413p. (55-34989)

TK168.R33

1. Electric engineering - Problems, exercises, etc.

~~RASKATOV, Afanasiy Ivanovich~~ dots.; GLAGOLEV, G.I., red.; VITASHKINA, S.V., red. izd-va; GORCHAKOV, G.N., tekhn. red.

[Laboratory manual for use in electric engineering courses] Posobie k laboratornym rabotam po kursu elektrotekhniki. Moskva, Izd-vo "Rechnoi transport," 1958. 615 p. (MIRA 11:7)
(Electric engineering--Laboratory manuals)

Tuesday, August 01, 2000

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CIA-RDP86-00513R001

PHASE I BOOK EXPLOITATION

Raskatov, Afanasiy Ivanovich, Docent

Posobiye k laboratornym rabotam po kursu elektrotekhniki (Manual for a Laboratory Course in Electrical Engineering) Moscow, Izd-vo "Rechnoy transport", 1958. 615 p. 8,000 copies printed.

Ed.: Glagolev, G.I.; Ed. of Publishing House: Vitashkina, S.V.;
Tech. Ed.: Gorchakov, G.N.

PURPOSE: This monograph has been approved as a textbook by the Ministry of Higher Education, USSR, and is addressed to students enrolled in a course of electrical engineering in vuzes.

COVERAGE: The book explains/procedure for performing laboratory experiments corresponding to all phases of a course in electricity (fundamentals of electrical engineering, electrical measurements, electric machines, electronic and ionic devices, and the

Ch.

Card 1/30

series-parallel connection

PASKATOV, A. I.

N/5
613.6
.R2

Zadachnik po elektrotekhnike, elektricheskim izmereniyam, elektricheskim mashinam i elektrooborudovaniyu. (Mathematical Problems on Electrical Technique with Electrical Measurements, Electrical Machines, and Electrical Equipment). Moskva, trudrezervizdat, 1954.

413 p. diagrs., tables.

RASKATOV, A. I.

Zadachnik po elektrotehnike, elektricheskim izmereniam, elektricheskim mashinam i elektrooborudovaniu (Problems in electrical engineering, electrical measurements, electric machinery and electrical equipment). Moskva, Trudrezerviat, 1951. 411 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 7, Oct. 1951.

RASKATOV, A.I., dotsent; GALKIN, Yu.M., dotsent, kandidat tekhnicheskikh nauk, retsenzent; YEGOROV, V.V. [deceased], dotsent, kandidat tekhnicheskikh nauk, retsenzent; KHLEBODAROV, S.F., inzhener, retsenzent; MAYKOPAR, M.B., dotsent, kandidat tekhnicheskikh nauk, nauchnyy redaktor; KOPTEVSKIY, D.Ya., redaktor; SUSLOV, P.V., redaktor literatury po metalloobrabatyvayushchim professiyam, inzhener; BAKOV, S.I., tekhnicheskiy redaktor.

[Problems in electrical engineering, electrical measurement, electric machinery, and electrical equipment] Zadachnik po elektrotehnike, elektricheskim izmereniyam, elektricheskim mashinam i elektrooborudovaniyu. Moskva, Vses. uchebno-pedagog. izd-vo Trudreservizdat, 1954. 413 p. (MLRA 7:11)

(Electric engineering--Problems, exercises, etc.)

RASKATOV, Afanasiy Ivanovich, dots.; MAYKOPAR, M.B., kand. tekhn.
nauk, nauchnyy red.; DEMIHA, G.A., red.; TOKER, A.M., tekhn.
red.

[Collected problems on electrical engineering, electric measurements, electric machinery, and electric equipment] Zadachnik po elektrotekhnike, elektricheskim izmereniam, elektricheskim mashinam i elektrooborudovaniyu. 2. izd., ispr. i dop. Moskva, Prof-tekhizdat, 1962. 517 p. (MIRA 15:6)
(Electric engineering)

RASKATOV, Afanasiy Ivanovich, dots.; ZABAVSKIY, A.V., nauchnyy red.;
CHISLOV, M.M., red.; PERSON, M.N., tekhn. red.

[Laboratory work in electrical engineering] Laboratornye raboty
po elektrotekhnike. Moskva, Proftekhizdat, 1962. 326 p.
(MIRA 15:7)

1. Kafedra elektrotekhniki i elektroniki Moskovskogo tekhnologicheskogo instituta myasnoy i molochnoy promyshlennosti (for Raskatov).
(Electric engineering--Handbooks, manuals, etc.)
(Electric laboratories--Handbooks, manuals, etc.)

BELYKH, D.P., kand. ist. nauk; VALYULIS, I.A.; GOTSKIY, M.V., kapitan dal'nego plavaniya [deceased]; D'YACHUK, I.L., kapitan dal'nego plavaniya; KALMYKOV, F.A., kapitan dal'nego plavaniya; KREMS, A.K., kapitan dal'nego plavaniya; KOLOTOV, N.A., dots.; PETRENKO, S.A.; RASKATOV, A.S.; FISHER, Ye.L.; DVORNAYK, B.M., otv. red.; LEVITSKIY, V.L., red.; LYUTIKOV, V.K.; MALAKHOV, N.N., red.; POL', P.A., red.; RASKATOV, A.S., red.; CHICHVARKHIN, V.S., red.; RADOSTIN, V.A., red.; LAVRENOVA, N.B., tekhn. red.

[History of Far Eastern Steamship Lines]Istoriia dal'nevostochnogo parokhodstva; ocherki. Moskva, Izd-vo "Morskoi transport," 1962. 263 p. (MIRA15:11)
(Soviet Far East--Merchant marine)

BELYKH, D.P., kand. ist. nauk; VALYULIS, I.A.; GOTSKIY, M.V., kapitan dal'nego plavaniya [deceased]; D'YACHUK, I.L., kapitan dal'nego plavaniya; KALMYKOV, F.A., kapitan dal'nego plavaniya; KREMS, A.K., kapitan dal'nego plavaniya; KOLOTOV, N.A., dots.; PETRENKO, S.A.; RASKATOV, A.S.; FISHER, Ye.L.; DVORNAYK, B.M., otv. red.; LEVITSKIY, V.L., red.; LYUTIKOV, V.K.; MALAKHOV, N.N., red.; POL', P.A., red.; RASKATOV, A.S., red.; CHICHVARKHIN, V.S., red.; RADOSTIN, V.A., red.; LAVREKOVA, N.B., tekhn. red.

[History of Far Eastern Steamship Lines] Istorija dal'nevostochnogo parokhodstva; ocherki. Moskva, Izd-vo "Morskoi transport," 1962. 263 p. (MIRA15:11)
(Soviet Far East--Merchant marine)

HASKATOV, G.I.

Principle stages in the relief formation and neotectonics of the eastern Carpathians within the boundaries of the U.S.S.R. Zemlevedenie 4:40-51 '57. (MIRA 10:9)
(Carpathian Mountains--Geology, Structural)

ABDULKABIROVA, M.A.; ALEKSANDROVA, M.I.; AFONICHEV, M.A.; BANDALETOV,
S.M.; B.SPALOV, V.F.; BOGDANOV, A.A.; BOGOVIKOV, L.I.; EGERSUK,
B.I.; BORUKAYEV, R.A.; BUVALKIN, A.K.; BYKOVA, M.S.; DVORTSOVA,
K.I.; DEMBO, T.M.; ZHUKOV, M.A.; ZVONTSOV, V.S.; IVSHIN, N.K.;
KOPYATKEVICH, R.A.; KOSTENKO, N.N.; KUMPAN, A.S.; KULYUKOV,
K.V.; LAVROV, V.V.; LYAPICHEV, G.F.; MAZURKEVICH, M.V.;
MIKHAYLOV, A.Ye.; MIKHAYLOV, N.P.; MYCHNIK, M.B.; NIDLENKO, Ye.N.;
NIKITIN, I.F.; NIKIFOROVA, K.V.; NIKOLAYEV, N.I.; PUPYSHEV, N.A.;
RASKATOV, G.I.; REINGARTEN, P.A.; SAVICHLVA, A.Ye.; SALIN, B.A.;
SEVRYUGIN, N.A.; SEMENOV, A.I.; CHERNYAKHOVSKIY, A.G.; CHUYKOVA,
V.G.; SHLYGIN, Ye.D.; SHUL'GA, V.M.; EL'GER, E.S.; YAGOVKIN, V.I.;
NALIVKIN, D.V., akademik, red.; PERMINOV, S.V., red.; MAKUSHIN,
V.A., tekhn.red.

[Geological structure of central and southern Kazakhstan]
Geologicheskoe stroenie Tsentral'nogo i Iuzhnogo Kazakhstana.
Leningrad, Otdel nauchno-tekhn.informatsii, 1961. 496 p.
(Leningrad. Vsesoiuznyi geologicheskii institut. Materialy, no.41)
(MIRA 14:7)

" (Kazakhstan--Geology)

HASKATOV, G.I.

Quaternary fauna, flora, and paleolithic implements of the eastern
Carpathians, Carpathian foothills, and Transcarpathia. *Bul.Kom.chetv.*
per. no.18:64-75 '53. (MIRA 7:5)
(Carpathian Mountain region--Paleontology)
(Paleontology--Carpathian Mountain region)

RASKATOV, G.I.

The stratigraphic significance of the discovery of ancient Paleolithic implements in the village of Bukovina in the Dniester Valley. Geol.sbor. [Lvov] no.1:73-75 '54. (MIRA 10:1)

1. Gosuniversitet, Voronezh.
(Bukovina--Stone implements) (Dniester Valley--Geology, Stratigraphic)

KHOZHAINOV, N.P., dotsent; KOCHILIN, M.S., prof.; DMITRIYEVSKIY, V.S., dotsent;
CHERNYSHEV, I.I., dotsent; PETERIK, I.D., predpochvatel'; LAURENTO,
T.V., assitant; RASKATOV, G.I., dotsent; PREOBRAZHENSKAYA, T.N.,
dotsent; SHRAMKOVA, G.V., predpochvatel'; ~~RUSSKAYA, E.I., dotsent;~~
~~FUTMAN, G.I., dotsent~~

Savva Gavrilovich Vishniakov, 1897-1964; obituary. Lit. i pol. iskop.
no.6:179-180 N-D '64. (MIRA 18:3)

RASKATOV, P. B

76777

USSR/Medicine - Pine
Medicine - Water, Supply

Jun 1948

"Growth of Annual Pine Sprouts as an Index of
Drought," P. B. Raskatov, Voronezh State Game Reserve,
3 pp

"Dok Ak Nauk SSSR" Vol LX, No 7

Attempts to use the growth of the pine tree to deter-
mine conditions in spring and summer. Submitted Mar
1948.

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RASKATOV, P.B.

[Physiology of plants with fundamentals of microbiology] Fiziologiya
rastenii s osnovami mikrobiologii. Moskva, "Sovetskaia nauka", 1954.
375 P. (MIRA 8:4)
(Botany--Physiology)

RASKATOV, P. B.

Anatomo-biochemical characteristics of seeds and fruits of the holly maple and ash-type maple. P. B. Raskatov and D. P. Viktorov. *Nauch. Zapiski Voronezh. Lesokhoz. Inst.* 12, 79-94(1953); *Referat. Zhur., Khim.* 1954, No. 21570.— Seeds of holly maples develop uniformly throughout the entire vegetative period and do not reach full physiol. maturity until the time of falling, while seeds of ash-type maples develop slowly in spring and grow at an accelerated rate later on, reaching physiol. maturity in winter. The differences between the seeds of the 2 types of maples are shown in the rates at which the germ tissue differentiates, rates of germination, accumulation of dry substance, and decreasing of the moisture contents and the activities of catalase. E. Wierbicki

RASKATOV, P. B.

Physiology of plants with fundamentals of microbiology Moskva, "Sovetskaja nauka", 1954. 375 p.

1. Botany - Physiology.
2. Micro-organisms.

RASKATOV, P. B.

RASKATOV, P.B.

[Physiology of plants with fundamentals of microbiology] Fiziologiya
rasteni s osnovami mikrobiologii. Moskva, Sov. nauka, 1954. 376 p.
(MIRA 8:3D)

RASKATOV, P.B.

[Physiology of plants with fundamentals of microbiology]
Fiziologija rastenii s osnovami mikrobiologii. Izd. 2. perer.
Moskva, Sovetskaja nauka, 1958. 364 p. (MIRA 12:1)
(Botany--Physiology) (Microbiology)

RUBTSOV, V.I., kand. sel'khoz. nauk, otv. red.; NAUMENKO, I.M.,
prof., doktor sel'khoz. nauk, red.; KAPPER, O.G., prof., red.;
KHUKHRYANSKIY, P.N., prof., doktor tekhn. nauk, red.;
RASKATOV, P.B., dots., kand. biol. nauk, red.; POLOZHENTSEV,
P.A., prof., doktor sel'khoz. nauk, red.; VOROTNIKOVA, R.V.,
red.; SERADZSKAYA, P.G., tekhn. red.

[Collection of student scientific papers] Sbornik studenche-
skikh nauchnykh rabot. Pod red. V.I. Rubtsova i dr. Voronezh,
Voronezhskoe knizhnoe izd-vo, 1959. 68 p. (MIRA 16:8)

1. Voronezh. Lesotekhnicheskiy institut. 2. Direktor Voronezh-
skogo lesotekhnicheskogo instituta (for Rubtsov).
(Forestry research)

RASKATOV, P.B.

Some terms of plant anatomy. Bot.zhur. 50 no.7:1009-1013
Jl '65.

(MIRA 18:11)

1. Voronezhskiy lesotekhnicheskiy institut.

RASKATOV, P.B.

Some characteristics of the motion of water in the branches
of deciduous trees. Nauch.zap.Vor.otd.VBO za:71-74 '64.

(MIRA 18:11)

KATKOV, V.M.

YEGOROV, M.Ye., doktor tekhnicheskikh nauk, professor; IVANOV, A.S.,
professor, retsenzent, KATKOV, V.M., inzhener, redaktor;
TIKHONOV, A.Ya., tekhnicheskly redaktor.

[Principles of design for machine-guilding factories] Osnovy
proektirovaniia mashinostroitel'nykh savodov. Izd. 4-e, perer.
i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1954. 588 p. (MLRA 7:12)
(Factories--Design and construction) (Machinery industry)

RASKATOV, V. M.

USSR/Scientific Organization

FD-825

Card 1/1 : Pub. 41 - 17/17

Author : Raskatov, V. M., Petrov, B. N., Naumov, B. N. Baron, L. I.,
Kalashnikova, P. Ya., and Kharkevich, A. D.

Title : In the scientific institutions of the Department of Technical Sci-
ences of the Academy of Sciences of the USSR

Periodical : Izv. AN SSSR, Otd. tekhn. nauk, 2, 111-128, Feb 1954

Abstract : Describes activity of various scientific institutions in five articles:
1. Conference on Automation of Technological Processes in Machine
Building, pp 111-116. Report on conference conducted in 1953. Gives
authors, titles, and abstract of reports presented. 2. Second All-
Union Conference on the Theory of Automatic Regulation, pp 117-122.
Gives authors, titles, and abstracts of reports. 3. Discussion of
results of research on use of wetting agents for combatting mine dust,
pp 123-124. Report on December 1953 meeting of Commission for Preven-
tion of Silicosis. Gives titles, authors, abstracts of reports on
wetting agents used for removal of dust from mine air. 4. Seminar on
the Theory of Machines and Mechanisms of the Institute of Machine Build-
ing of the Academy of Sciences of the USSR, pp 124-126. Gives authors,
titles and abstracts of some reports discussed in 1953. 5. Seminar
of the Laboratory for Developing Scientific Problems of Wire Communica-
tion of the Academy of Sciences of the USSR, pp 126-128. Report on
second half of 1953. Gives authors, titles, and abstracts of reports.

RASKATOV, V. M.

USSR/Miscellaneous----machine construction

Card 1/1

Author : Raskatov, V.M.

Title : Consultation on automatization of technological processes in machine construction

Periodical : Vest. mash. 34/3, 94-101, Mar/1954

Abstract : In November, 1953 a consultation was held in Moscow on automatization of the technical processes in machine construction. It was called by the Institute of Machine Science of the Academy of Sciences of the USSR. Seven hundred persons, representing various branches of production, took part. Many papers were read. A few points are revealed, such as exchange of experience and increasing research. Schools are called on to take a more active part in the solving of problems. The fields that the papers covered are explained in general.

Institution :

Submitted :

RASKATOV V.M.

DIKUSHIN, V.I., akademik, redaktor; RASKATOV, V.M.; KOPNOV, Ye.V.,
redaktor; MOSKVICHEVA, E.I., tekhnicheskij redaktor.

[Automation of technological processes in machine building;
control] Avtomatizatsiia tekhnologicheskikh protsessov v
mashinostroenii; kontrol'. Moskva, Izd-vo Akademii nauk SSSR,
1955. 222 p.
(MLRA 9:1)

1. Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya.
(Machinery industry) (Automation)

11/20/55 V. I.

DIKUSHIN, V. I., akademik, redaktor; BASKATOV, V. M., compiler; KOPHOV, Ye. V.
redaktor; MOSKVICHEVA, N. I., tekhnicheskij redaktor

[Automation of the technological processes in machine building;
hot working of metals] Avtomatizatsiia tekhnologicheskikh pro-
tssosov, v mashinostroyeni; goriachaia obrabotka metallov.
Moskva, 1955. 418 p.

(MLRA 9:1)

1. Akademiya Nauk SSSR. Komissiya po tekhnologii mashinostroyeniya
(Automation) (Metallurgy) (Mechanical engineering)

RASKATOV, V.M.

USSR/ Engineering - Conferences

Card 1/1 Pub. 128 - 18/25

Authors : Raskatov, V. M.

Title : Results of the first All-Union conference between scientists and machine construction technicians

Periodical : Vest. mash. 35/4, 76-81, Apr 1955

Abstract : Minutes are presented from the first All-Union conference between scientists and technicians of the machine construction industry held in December 1954 at the Inst. of Machine Constr. of the Acad. Sc., USSR. Names of participants to the conference and problems discussed are listed.

Institution :

Submitted :

Krasny, V.I.
VEYS, D.A.; KOKHTEV, A.A.; LELYANOV, V.A.; MALYNICH, V.I.; POVOLOTSKIY, L.I.;
BASKATOV, V.M., inzhener; TOPORNIN, G.S. [deceased]; LAPUSHKIN, A.D.,
dotsent, retsenzent; USPASSKIY, P.P., professor, retsenzent; ARKHAN-
GEL'SKIY, V.M., kandidat tekhnicheskikh nauk, retsenzent; RINGIER, Z.
L., kandidat tekhnicheskikh nauk, retsenzent; SHAROV, M.Ya., kandidat
tekhnicheskikh nauk, retsenzent; YUR'YEV, M.G., inzhener, retsenzent;
LYUTIKOV, A.F., redaktor; MODEK', B.I., tekhnicheskii redaktor.

[Manual on materials for the construction of locomotives and railroad
cars] Spravochnik po materialam dlia lokomotivo- i vagonostroeniia.
Pod obshchei red. V.M. Baskatova. Moskva, Gos. nauchno-tekhn. izd-vo
machino-stroit. lit-ry, 1956. 481 p.

(Locomotives--Construction) (Railroads--Cars--Construction)

RASKATOV, V.M. + DIKUSHIN, V.I., akademik, otvetstvennyy redaktor;
MOSKVICHEVA, N.I., tekhnicheskiiy redaktor

[Automatization of the technological processes in machine construction; the machining of metals and the general problems of automatization] Avtomatizatsiya tekhnologicheskikh protsessov v mashinostroyeni; obrabotka metallov rezaniem i obshchie voprosy avtomatizatsii. Moskva, 1956. 326 p. (MLRA 9:9)

1. Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya.
(Automatic control) (Machine tools)

RASKATOV, V.M.; DIKUSHIN, V.I., akademik, redaktor; KOPNOV, Ye.V., redaktor;
MOSKVICHEVA, N.I., tekhnicheskiy redaktor.

[Automatizing the technical processes in machine building; drive
and operation of machines] Avtomatizatsiya tekhnologicheskikh pro-
tseesov v mashinostroyeni; privod i upravlenie mashinami. Moskva,
1956. 223 p. (MLRA 9:6)

1. Akademiya nauk SSSR. Institut mashinovedeniya. Komissiya po tekhnolo-
gii mashinostroyeniya.
(Machinery industry) (Automatic control)

AUTHOR: Raskatov, V.M., Engineer.

122-1-27/34

TITLE: Contribution to the summing-up of the Second All Union Conference on all-round mechanisation and automation of production processes ^{in engineering manufacture} (K itogam vtorogo vsesoyuznogo soveshchaniya po kompleksnoy mekhanizatsii i avtomatizatsii tekhnologicheskikh protsessov v mashinostroyeni)

PERIODICAL: "Vestnik Mashinostroyeniya" (Engineering Journal), 37, 1957, No.1, pp. 82 - 88 (U.S.S.R.)

ABSTRACT: In his introductory remarks, Academician A.A. Blaganravov, Secretary of the Department of Technical Sciences of the Academy of Sciences of the U.S.S.R., pointed out that the solution of the automation problems, so important in industry, demanded not only new development of the means of automation but, even more so, the further study of the production processes themselves.

Academician V.I. Dikushin deplored the frequent use of hundred year-old methods of driving and controlling machinery to achieve automation and urged greater attention to the automation of foundry and forging operations. Earlier decisions have often not been carried out.

The Deputy Minister of the Machine Tool and Cutting Tool Industry, D.A. Ryzhkov, noted the large increase in the per-

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122-1-27/34

Contribution to the summing-up of the Second All Union Conference on all-round mechanisation and automation of production processes in engineering manufacture. (Cont.)

centage of automatic machine tools in the total machine tool output. The basic problem now is the development of high speed loading and clamping devices. Much attention was devoted to foundry and forging equipment and automatic production lines. Bad utilisation of automatic production lines was deplored. During July, 1956 the production plan in the first State ball bearing plant was fulfilled to the extent of 101.5% but the total time of unserviceability in the automatic bearing factory amounted to 22% of the working time. Of the 750 000 new machine tools to be produced during the current 5-year plan, 50% is scheduled for new plant and about 10-15% is intended for export. The remainder is insufficient for renewals. Modernisation of existing plant must be encouraged. Typical modernisation designs are being issued by the Ministry, and the centralised manufacture of typical automation devices is to be organised. The Deputy Minister of Heavy Engineering, A.N. Denyanovich, spoke of the task of specialisation of plants and of some advanced methods of manufacture. The sectional method of hot stamping promises a great saving of material.

Academician V.S. Kulebakin suggested that even the modern

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Contribution to the summing-up of the Second All Union
Conference on all-round mechanisation and automation of
production processes in engineering manufacture. (Cont.)

automatic equipment does not yield automatic production systems
in conjunction with imperfect production machinery.

The Deputy Minister of the Electrical Engineering Industry,
N.I. Borisenko, remarked on the lack of specialists in the auto-
mation fields and proposed a unification of all electrical drive
and control equipment design development.

Academician P.A. Rebinder dealt with the deformation and
failure theory of metals in the press working processes and in
metal cutting within an active lubricating medium. A labora-
tory for physical chemistry phenomena in mechanical engineering
has been opened at the Institute of Physical Chemistry of the
Academy of Sciences of the U.S.S.R.

The Deputy Minister for the Instrument Industry and Auto-
mation Methods, V.P. Lukin, remarked in his lecture on the
delays in automation development due not only to the absence of
certain instruments but also to the imperfections of production
machinery.

Professor F.S. Demyanyuk reported on problems of co-ordinated
different types of processing and machining in automation
development.

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122-1-27/34

Contribution to the summing-up of the Second All Union Conference on all-round mechanisation and automation of production processes in engineering manufacture. (Cont.)

The Deputy Minister of the Motor-car Industry, V.Ya.Selifanov, reported on the automation tasks in the motor car industry. Work on the automation of assembly operations has begun. During the 5-year plan the degree of mechanisation and automation in the basic operations was raised from 22.5 to 50%.

The Deputy Minister of the Radio Engineering Industry, A.A. Zakharov, said that the industry produces 6 000 different items. During the 5-year plan, 525 mechanized and semi-automatic production lines were set up, and 730 specialised production machines erected. These measures should reduce the labour content in producing a second-class sound receiver from 22 to 8 hours, and a mass-produced television receiver from 43 to 15 hours.

B.S. Sotskov gave a survey on the research into automation outside the Soviet Union. K.I. Klimenko, Doctor of Economic Sciences, and A.D. Yemelyanov, Candidate of Economic Sciences, gave a paper on the determination of the economic effectiveness of automation. After the general session, the discussions of the conference continued in eight separate sections.

Card 4/12 14 papers were delivered to the foundry automation section

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Contribution to the summing-up of the Second All Union Conference on all-round mechanisation and automation of production processes in engineering manufacture. (Cont.)

led by P.N. Aksenov, Doctor of Technical Sciences. It was noted that foundry production in the U.S.S.R. is not distinguished in a high degree of mechanisation and automation. Within the system administered by 11 Ministries of Engineering Production (which occupies over 60% of foundry workers), only 43% of 51 000 moulders were working with moulding machines. The great strides made in the U.S.A. were noted and the pronounced relation between foundry mechanisation and total foundry output was emphasised.

The Government directive on a rapid increase in the manufacture of foundry equipment has found the industry unprepared and the responsibility given to the Scientific Research Institute for Foundry Machinery to supervise the expansion of the automation of this branch of industry was severely criticised. Resolutions were passed urging more activity in the research institutes and technical universities. The concentration of the inadequate design engineering reserve in a few centres was advocated and the urgent need for full technical training in foundry technology was pointed out. The conference expressed

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the wish for the re-establishment of "VINTOL" (All Union

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Contribution to the summing-up of the Second All Union Conference on all-round mechanisation and automation of production processes in engineering manufacture. (Cont.)

Scientific Research Society of Foundrymen) especially since such scientific and technical societies exist in all countries.

12 papers were read in the section concerned with the press-working of metals under the chairmanship of A.I. Tselikov, Corresponding Member of the Ac.Sc. U.S.S.R., including three papers by Academicians (Corresponding Members A.A. Ilyushin and I.M. Pavlov and Doctor of Technical Sciences A.D. Tomlenov). The Chairman himself reported on new continuous processes in the press working of metals.

The absence of a report from the central organisation of press working equipment supply is criticised. The proportion of high output presses in the Soviet Union is too low. For example, the number of crank presses for hot stamping is 40 times smaller in the U.S.S.R. than in the U.S.A.

14 papers were given at the welding section, under the guidance of G.A. Nikolayev, Doctor of Technical Sciences. Papers by the Corresponding Members of the Ac.Sc. U.S.S.R., N.N. Rykalin and B.E. Paton and by the Candidate of Technical Sciences D.S. Balkovets, were devoted to advanced methods of electric resistance welding and electric slag welding. Two papers were

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Contribution to the summing-up of the Second All Union Conference on all-round mechanisation and automation of production processes in engineering manufacture. (Cont.)

devoted to cold welding. In spite of the great advances in welding theory and the development of equipment which raises productivity between five and ten times, automatic welding processes have not been sufficiently introduced into production. In engineering manufacture the volume of automatic welding does not exceed 30% of the total volume of welding.

8 papers were included in the section devoted to the automation of hardening processes, under the guidance of E.A.Satel. It was noted that an urgent need is felt for advances in the mechanisation of these processes, in automatic testing of the hardness, structure and temperature of hot metal without contact with the component, in developing non-oxydising media for the heat treatment of alloys, and in increasing hardness at elevated temperatures.

19 papers were read in the section on metal cutting, under the direction of F.S. Demyanyuk, Doctor of Technical Sciences. Papers by Mozhayev, Doctor of Technical Sciences, and D.T. Vasilyev, Candidate of Technical Sciences, on the use of computation techniques for optimising the productivity of metal cutting machine tools are noted. S.M. Stepashkin, of the Motor

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Contribution to the summing-up of the Second All Union Conference on all-round mechanisation and automation of production processes in engineering manufacture. (Cont.)

Car Plant imeni Likhacheva made interesting points on the need to create "flexible" automatic production lines.

Tool life is a vital factor in automation. Yu.B. Erpsher emphasised the discrepancies between prediction and fact in tool life analysis, quoting an example when an accepted formula yields a tool life of 100 years for a drill. The absence of papers on carbide cutting tips and on high speed steels is regretted. The practice of selecting feeds and speeds mainly on the basis of minimising re-setting time is deplored, and emphasis on improving cutting tool quality is needed. The development of automatic devices in machine tools is reflected in Table 2, p.83. Thus, between 1950 and 1955, the proportion of automatic and semi-automatic machine tools rose from 30 to 41%. The number of machine tool types in this category increased from 125 to 329 and is scheduled to increase further to 518 by 1956.

The automation of existing machine tools is the greatest industrial automation task. At the beginning of 1956, the number of metal cutting machine tools in the U.S.S.R. was 1 760 000 (compared with 2 300 000 in the U.S.A. in 1953).

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18.2% of the Soviet machine tools are over 20 years old; modernisation of 400 000 machine tools is foreseen during the current five-year plan. Typical sub-assemblies for modernisation are to be manufactured by specialised plants.

In the metrology and inspection section, led by I.E. Gorodetskiy, Doctor of Technical Sciences, 12 papers were presented wherein not only unsolved but even unrecognised problems were mentioned. Losses due to scrap in engineering manufacture during 1955 amounted to 1 770 million Roubles in the U.S.S.R. More than one million workpeople are engaged in inspection. The Chelyabinsk Tool Works manufactures pick-off units for automatic dimensional control in cylindrical grinding. The need to control the working parts of machine tools in obedience to selected statistical results of measurement during manufacturing processes was pointed out. The problem of supervision of simultaneous inspection devices by the Weights and Measures authorities was discussed.

The section on machine tool drive and control equipment, under the chairmanship of Academician V.I. Dikushin heard 14 papers devoted mainly to the development of modern apparatus

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for programme control, including the primary forming of complex surfaces in dies, moulds, etc. and the jig drilling in batch production. The absence of standard computer elements prevents further rapid progress. During the current 5-year plan, 20 types of machine tools with programme control are scheduled for issue. Electric control gear produced in the U.S.S.R. was severely criticised. Compared with the "Keockner" contactor, Soviet contactors have twice the size and a life of one million mechanical operation or 200 000 switching operations under load, instead of 10 million and 3 million respectively. Foreign micro-switches permitting 15 million operations are compared with the Soviet equivalent permitting only 1 million operations. The slow introduction of semi-conductors is deplored.

In the section on mechanisms for automatic devices presided over by N.I. Levitskiy, Doctor of Technical Sciences, 14 papers were read. The shift of interest from mechanisms to electronic devices sometimes overshadows the fact that increasing demands are made on the mechanical elements of automatic machines. The development of automatic tool change, the remote control of

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Contribution to the summing-up of the Second All Union Conference on all-round mechanisation and automation of production processes in engineering manufacture. (Cont.)

infinitely variable transmissions and the use of hydraulic accumulators in clamping systems are some of the points made.

The economic effectiveness of automatic production was treated in several papers, of which those by K.I. Kliminko and A.D. Yemelyamov were read in full session. Owing to the fact that in engineering manufacture materials and power cost amount to about 60% of the total and amortization lost amounts to another 20%, even the reduction of labour cost by a factor of two or three has no decisive effect on the total cost.

The reporter points out that in the Soviet Union the cost of automation equipment is entered at an excessive figure because it contains all the research, development and familiarisation expenditure. It is said that in the U.S.A. and Great Britain automation equipment is developed at the expense of current production and introduced without the "debt" of development expenses.

In its general sessions considerable emphasis was given to the lack of co-ordination in the development of automation equipment and in particular to the absence of adequate information and the means of information flow. Lack of co-operation

Card 11/12

AUTHOR: Raskatov, V.M., Engineer 30V/122-58-6-29/37

TITLE: On the Part Played by "External Links" in the Automation of Production Processes (O roli "vneshnikh svyazey" v avtomatizatsii proizvodstvennykh protsessov)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 6, pp 71-73 (USSR)

ABSTRACT: In the development of new production machinery, the auxiliary operations forming the links with the outside are often inadequately considered. The loading and unloading of machine tools are discussed in the paper. The advisability of storage between individual machines in automatic production lines is considered. Formulae are given for the relative productivity of automated and non-automated production lines. The development of standard designs of magazine and feeding units is advocated. There are 3 Soviet references.

Card 1/1 1. Industrial production

RASKATOV, V.M.; DIKUSHIN, V.I., akademik. otv.red.; KOTOV, V.A., red.
izd-va; KUZ'MIN, I.F., tekhn.red.

[Automatic control of machinery manufacturing processes] Avto-
matizatsiia mashinostroitel'nykh protsessov. Vol.1. [Heat treatment
of metals] Goriachaiia obrabotka metallov. Moskva. 1959. 394 p.
(MIRA 12:4)

1. Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya.
(Metals--Heat treatment) (Automatic control)

HASKATOV, V.M., inzh.

The First International Congress on Automatic Control. (MIRA 13:10)
Vest.mash. 40 no.10:81-83 0'60.
(Automatic control--Congresses)

RASKATOV, V.M.; DIKUSHIN, V.I., akademik, otv. red.; RZHEVSKIY, V.P.,
red.; SHEVCHENKO, G.N., tekhn. red.

[Automation of production processes in the machinery industry]
Avtomatizatsia protsessov mashinostroeniia; trudy. Moskva,
Izd-vo Akad. nauk SSSR. Vol.3. [Machining, hardening, assembl-
ing] Obrabotka rezaniem, uprochnenie i sborka. 1963. 219 p.
(MIRA 16:3)

1. Vsesoyuznoye ob'yedinennoye soveshchaniye po avtomatizatsii
proizvodstvennykh protsessov v mashinostroyenii i avtomatizii-
rovannomu elektroprivodu v promyshlennosti. 3d, Moscow, 1959.
(Machinery industry) (Automation)

RASKATOV, V.M., insh.; KOKHTEV, A.A.; LELYANOV, V.A.; BESSONOVA,
N.F.; VEYS, D.A.; KARABANOVA, L.T.; SILANT'YEV, M.G.;
SITNICHENKO, A.I. [deceased]; CHYENKOV, V.S.; YARKOV, A.M.,
insh., retsenzent; GARANKINA, S.P., red.isd-va; TIKHANOV,
A.Ya., tekhn. red.

[Brief handbook on materials used in the machinery industry]
Kratkii spravochnik po mashinostroitel'nym materialam. Pod
obshechey red, V.M.Raskatova. Moskva, Moskgiz, 1963. 440 p.
(MIRA 16:7)

(Materials)

RASKATOV, V.M.; DIKUSHIN, V.I., akad., otv. red.; RZHEVSKIY, V.F.,
red. izd-va; LAUT, V.G., tekhn. red.

[Automation of processes in machinery manufacture] Avtomatiza-
tsia protsessov mashinostroeniia. Moskva, Izd-vo Akad. nauk
SSSR. Vol.1. [General problems and means of automation] Obshchie
voprosy i sredstva avtomatizatsii. 1962. 458 p. (MIRA 15:5)

1. Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya.
(Machinery industry) (Automation)

RASKATOV, V.M.; DIKUSHIN, V.I., akademik, otv. red.; RZHEVSKIY, V.F.,
red. Izd-va; VOLKOVA, V.G., tekhn. red.

[Automatic control of machinery manufacturing processes] Avto-
matizatsiia protsessov mashinostroeniia. Moskva, Izd-vo Akad.
nauk SSSR. Vol.2. [Hot metalwork] Goriachaiia obrabotka metal-
lov. 1962. 272 p.
(MIRA 15:3)

1. Akademiya nauk SSSR. Komissiya po tekhnologii mashino-
stroyeniya.
(Metalwork) (Automatic control)

РАКАТОВА, В. М.

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СПРАВОЧНИК ПО МАТЕРИАЛАМ ДЛЯ ЛОКОМОТИВ- I ВАГОНОСТРОЕНИЯ (HANDBOOK OF
MATERIALS FOR LOCOMOTIVE AND RAILROAD CAR BUILDING, BY) D. A. VEYS (I DR) FOD.
RED. V. M. RAKATOVA. MOSKVA, MASHGIZ, 1956. 481 p. DIAGRS., TABLES.

RASKATOVA, Ye. A.

RASKATOVA, Ye.A. "Investigation of the process of formation of friable mixtures in the preparation of folder and its mechanization." Min Higher Education USSR. Moscow Inst of the Mechanization and Electrification of Agriculture imeni V. M. Molotov. Moscow, 1956. (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCE.)

So.: Knishnaya letopis', 1956. No. 25.

UL'MAN, I.Ye., dots., kand. tekhn. nauk, otv. red.; KHARITONCHIK, Ye.M., prof., otv. za vyp.; Prinsipali uchastiye: LEBEDEV, S.P., prof., doktor tekhn. nauk, red.; SERGEYEV, M.P., prof., red.; KUZNETSOVA, A.V., doktor sel'khoz. nauk, red.; MELAMED, V.I., dots., red.; DEULIN, N.P., dots., red.; SOKOLOV, B.F., dots., red.; ROMALIS, B.L., dots., red.; RASKATOVA, Ye.A., dots., red.; TONN, G.A., kand. tekhn. nauk, red.; PANUS, Yu.V., st. prepod., red.; KUBYSHEV, V.A., st. prepod., red.

[Materials of the Jubilee Scientific Conference of the Chelyabinsk Institute of the Mechanization and Electrification of Agriculture] Materialy Iubileinoi nauchnoi konferentsii. Cheliabinsk. Pt.1.[Investigation of the elements of design and the system of agricultural machinery] Issledovanie elementov konstruksii i sistemy mashin v sel'skokhoziaistvennom proizvodstve. 1962. 122 p. Pt.2.[Improvement in the design of machinery and the means for prolonging their service life] Sovershenstvovanie konstruksii mashin i puti uvelichenia ikh dolgovechnosti. 1962. 118 p. Pt.3.[New methods for using electric power in mobile units and technological processes in agriculture] Noveye sposoby ispol'zovania elektricheskoi energii v mobil'nykh agregatakh i tekhnologicheskikh protsessakh sel'skokhoziaistvennogo proizvodstva. 1962. 44 p. (MIRA 16:8)

1. Chelyabinsk. Institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.
(Agricultural machinery) (Electricity in agriculture)

RASKAY, B.

Production of tetraethylsilane by a continuous process in the gas phase. B. Raskay and M. Nádasy. Magyar Kémikusok Lapja 10, 1-4, (1958); Hung. Tech. Abstr. 7, No. 4, 6.—A new process for the production of Si(OEt)₄ in the gas phase was evolved. A glass column (1000 mm high, 40 mm. inside diam.) packed with Raschig rings and provided with an electrically heated jacket was used in the expts. The column was fitted at the head with a reflux system and at the bottom with a receiver. At a distance of 1/2 above the bottom vaporized ethanol (82-5°) and SiCl₄ (60-5°) were introduced into the column at opposite points. HCl liberated during the reaction escaped through the reflux system and the formed I was collected in the receiver. By introducing a feed of 17 g. SiCl₄ and 18.4 g. ethanol per min. into the app., and maintaining a temp. of 110-30° at the lower part of the column an 82% conversion was attained. The crude product collected in the receiver was purified by distn.; the chlorine content of the I obtained by this process was 0.2-0.6%. Thus it must be concluded that a relatively more complete esterification was attained in the gas phase reaction since the products obtained by usual batch processes contained 1 to 2% chlorine. Expts. were carried out by feeding ethanol with a 4-10% water content into this gas phase reaction in order to obtain not only I but polymeric ethyl silicates with a 33-40% SiO₂ content as byproducts. These experiments however proved unsuccessful due to the sepn. of silicic acid.

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Recovery of pyridine and its homologs from sodium phenolate solutions. Miklós Nádasz and Béla Ráskay (Nehézségiipari Kutató Intézet, Veszprém, Hung.). *Nehézségiipari Kutató Intézet Közleményei* 1, 113-20(1958).

—Approx. 10% of the original pyridine (and its homologs) (I) are contained in the process liquors (II) of coal-tar distn.; a method for its recovery was developed. Steam is injected into II in the course of the regular purifying process. The blow-off from this operation is led into a fractionating

column where its I content is enriched to 20%. The concentrate separates into 2 layers upon standing. The top (oily) layer, contg. 65% of I, is extd. with dil. H₂SO₄, and the bases are liberated with NH₃ by using conventional methods. The bottom (watery) layer is either added to the raw bases so obtained or is used to dil. the H₂SO₄. Steam requirements were studied in the lab., and it was found that an av. 0.3 kg./l. II is needed, the exact amt. depending upon the concn. of II (for example, 0.20-0.25 kg./l. for a 100-60-g./l. I soln. and 0.35-0.40 kg./l. for a 200-60-g./l. I soln.). In the lab. app. 84-90% of the I content of 1.5-2.0 l. II was recovered/hr. Compn. of the recovered soln. was (approx.) pyridine 19, 2-picoline fraction 20, 3-picoline fraction 21, 140-60° fraction 17, and heavy pyridine homologs 24%. To adopt this method in plants it is necessary to replace the blow-off condensers with fractionating columns and to provide suitable settling and storage tanks. G. J. Ernyei

RASKAY, BELA

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