

BARANOV, I.Ya.; RODZYANKO, N.G.

Association of datolite mineralization with small intrusions.

Izv. vys. ucheb. zav.; geol. i razv. 6 no.9:145-148 S '63.  
(MIRA 17:10)

1. Rostovskiy gosudarstvennyy universitet.

RODYENKO, N.G.

The interrelation of datelite and lead-zinc mineralization.  
Razved. i okh. neдр. 30 no.3:8-10 Mr '64 (MIRA 18:1)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

RODZYANKO, N.G.; TRUFANOV, V.N.

Determining the temperature regime and succession of mineral  
formation using the decrepitation method. Zap.Vses.min.ob-va  
93 no.6:708-713 '64. (MIRA 18:4)

1. Gosudarstvennyy universitet, Rostov-na-Donu.

TRUFANOV, V.N.; ROLYANSKI, N.G.

Automatic decriptometer for determining the decrepitation temperatures of inclusions. Biul.nauch.-tekh.inform VIMS no.1:81-84 '63.  
(MIRA 18:2)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

KODLYANKO, V. K.

ZIDANOV, I. M. , LIFSHITS, B. S. & RODYANKO, Y. N.

"Automatic Telephone Stations," published by the State Communications and Radio Literature, Moscow, 1945, 200 pp. and 4 diagrams.

RODZYANKO, V. Ye., Candidate in Technical Sciences, LEIS Lecturer. and ZHDANOV, I. M.,  
Doctor of Technical Sciences, Depart Chairman.

"Book Review: Principles of the Engineering Economics of Laying Out City  
Telephone Networks." Markhay, Ye. V., 1953, Moscow, Svyazizdat.  
Vestnik Svyazi, No. 12, 1954, Pages 32-33

Translation M-3,053,366 14 Feb 1957.

LEIS - Leningrad Electrotechnical Inst. of Communications

BLYUMENFEL'D, V.N.; LYUFUR, S.L.; LIVSHITS, B.S.; PARILOV, V.P.;  
PSAREV, S.A.; RODZYANKO, V.Ye.; GOLUBTSOV, I.Ye., *otv. red.*;  
KIRILLOV, L.M., *red.*; SLUTSKII, A.A., *tekh. red.*

[Methodology for designing the equipment of crossbar automatic  
telephone exchanges] Metodika rascheta oborudovaniia ATS koordi-  
natnykh sistem; informatsionnyi sbornik. Moskva, Gos. izd-vo  
lit-ry po voprosam sviazi i radio, 1961. 130 p. (MIRA 15:4)  
(Telephone, Automatic—Equipment and supplies)

ROEFFLER, S.

Ohloj, J., Roeffler, S. Improvement of Montan Wax. Uszlachetnianie wosku montanowego". Przemysl Chemiczny. No. 10, 1953, pp. 498-503, 6 figs. 3 tabs.

Survey of the trends of research in synthetic waxes in connection with the demands of Polish industry and the results of transforming Polish montan wax into hard waxes. The stages of treatment are: (1) second extraction of wax with organic solvents in order to reduce the content of resins to approx. 15%; (2) refinement through oxidation; (3) further esterification of acid waxes obtained during refinement. There is also a description of the properties and possibilities of industrial application of the waxes examined.



ST. ROEFFLER  
ST. ROEFFLER

*Man*

✓ 1720 Improvement of Montana Wax. J. Oblo<sup>1</sup> and S. Roefler<sup>2</sup> (Polish.) *Przemysl Chemiczny*, v. 32, no. 10, Oct. 1953, p. 498-503.

Discusses second extraction of wax with organic solvents to reduce the content of resins to 15%, refinement, oxidation, and further esterification of acid waxes obtained during refinement. Tables, graphs, micrographs.

*ME  
9-24-54*

*Handwritten:*  
CZAYKOWSKI, J.; REKWART, S.; ROEFLER, W.; TROJANOWSKI, A.;  
ZAWISLAK, J.

Clinical results of the use of dextran produced in Poland  
(poliglukan). Polskie arch. med. wewn. 26 no.12:1939-  
1942 1956.

1. Z Kliniki Chirurgicznej Instytutu Hematologii Dyrektor:  
doc. dr. med. A. Trojanowski. Warszawa, ul. Chocimska 5.  
Instytut Hematologii.

(DEXTRAN, ther. use  
comparison of Polish prep. with foreign products (Pol))

ROEFLER, WLODZIMIERZ

REKWART, Stefan.; ROEFLER, Wlodzimierz.

Clinical observations on the prophylaxis and treatment of post-operative shock by transfusions of different quantities of blood and blood substitutes. Polski tygod. lek. 12 no.14:506-510 1 Apr '57.

1. Z Kliniki Chirurgicznej Instytutu Hematologii: dyrektor: doc. dr med. Andrzej Trojanowski. Warszawa, ul Chocimska 5, Instytut Hematologii.

(SHOCK, prev. & control

blood transfusion & plasma substitutes in prev. & ther. of postop. shock (Pol))

(POSTOPERATIVE CARE

SAME

(BLOOD TRANSFUSION, in various dis. postop. shock (Pol))

(PLASMA SUBSTITUTES, ther. use

prev. & ther. of postop. shock (Pol))

REKWART, Stefan; ROEFLER, Włodzimierz

Prevention of shock in surgical interventions. Polski przegl.  
chir. 28 no.8:851-852 Aug 56.

1. Z Klinicznego Oddziału Chirurgicznego Instytutu Hematologii  
w Warszawie. Dyrektor: doc. dr. Trojanowski. Warszawa, ul.  
Chocimska 5 (Instytut Hematologii).  
(SHOCK, prevention and control,  
in surg. (Pol))

FELT, V.; REICHL, D.; GRAFNETTER, D.; ROEHLING, S.; VOHNOUT, S.; IOJDA, Z.

Studies on the effect of certain hormones on experimental atherosclerosis. II. Effect of growth hormone, hydrocortisone and hyaluronidase on certain properties of atheromatous vascular wall in rabbits. Cas. lek. cesk. 98 no.10:294-299 6 Mar 59.

1. Ustav pro choroby obehu krevniho, reditel Prof. MUDr. Kl. Weber, Vyzk. ustav endokrinologicky, reditel doc. MUDr. K. Silink, Embryologicky ustav KY, prednosta prof. MUDr. Z. Frankenberger. V. F.. Praha-Krc, Budejovicka 800.

(ARTERIOSCLEROSIS, experimental,  
eff. of hyaluronidase, hydrocortisone & sematotropin  
on vasc. wall (Cz))

(HYDROCORTISONE, effects,  
on exper. arteriosclerosis, on vasc. wall (Cz))

(HYALURONIDASE, effects,  
effects)

(SOMATOTROPIN, effects,  
same)

SOCHA, M., mgr; ROEHRYCH, K., inz.

Problem of more extensive utilization of machines. Przegł mech 22  
no.1:29 10 Ja '63.

ROEHRYCH, K., inz.; SOCHA, M., mgr

4th National Conference on Repairs of the German Democratic  
Republic. Mechanik 36 no.1:3 of cover '63.

RCEHRYCH, K. inz.; SOCHA, M., mgr

6th Conference on Repairs in the German Democratic Republic.  
Przegl mech 21 no.17:546 10 S '62.



ROEHRYCH, Karol, inz.

Proper utilization of machines. Mechanik 37 no.5:289-290  
My'64.

ZMB-MISS-ROEHM-39

R0083-F451

ROEHM

development of a mine net for use against pursuing enemy aircraft---Minen-lets  
Als Abwehrwaffe Gegen Jagdflieger---by Roehm No Place Dec 1939 Germ Secr 1P

Rough outline for development of an anti-aircraft wire net to be launched by  
Aircraft attached from the rear. Net to be 50 by 50 meters made of steel wire---  
1.3M dia---. Attached to net are 8 mines of 300 to 400 Gm each. Net to be  
projected into path of enemy plane by compressed air at a rate of 20 to 50 M per  
sec. Total weight of net 8 KG. Mines are detonated by impact of enemy aircraft  
on net.

SOURCE: AIR, AEC, DASK CATALOG OF GERMAN AND JAPANESE AIR-TECHNICAL DOCUMENTS,  
March 1948, P. 683-84, Unclassified.

Translation No. F-T3-1977-RE  
IQF-VHEK-ROG-3-10-38

R2649-F418

ROELIG, H.

Dynamic calculations of the vibration damping and endurance of vulcanizates---  
Dynamische bewertung der daempfung und dauerfestigkeit von vulkanisaten---By H. Roelig  
Leverkusen I G farbenindustrie A G Oct 1938 Germ unclass 33P incl photos, tables  
diagrams graphs.

Test apparatus described for dynamic testing of rubber tires to determine physical data  
for calculations on vibrations of vulcanized rubber. Dynamic comparison tests between  
natural and synthetic rubber. Modulus of elasticity and dynamic adhesion to metal.  
Apparatus consisted of eccentric weight which was turned by motor-driven elastic shaft.  
Amplitude of vibrations measured by path mirror and force exerted determined by force  
mirror. Light thrown on both mirrors deflects light on screen and brings out dynamic  
hysteresis loop of the rubber.

SOURCE: AIR, AMC, DESK CATALOG OF GERMAN AND JAPANESE AIR-TECHNICAL DOCUMENTS.  
MARCH 1948 (P. 839) Unclassified.

ROELOFS, R.

ROELOFS, R. New Arrangement for the Observation of the Sun. Przegląd  
geodezyjny, 1949, no. 5, p. 138-143.

RCPOVA, E. G.

29098

Klyuchoteryye L'ayenogo Vselokna. Nauch. - Isslyed. Trudy (Tsyentr. Nauch.-Isslyed. In-T L'ubnyykh Vselokna), T. 111, 1949, C. 72-102. - Bibliogr: 25 Naev

NO: LETOPIS' No. 3

ROSENER, E.

ROSENER, E. Development of the gas industry in the German Democratic Republic.  
p. 549

Vol. 1, no. 12, Dec. 1956

ENERGETIKA  
TECHNOLOGY  
BERLIN

So: East European Accession, Vol. 6, No. 5, May 1957

POLAND/Chemical Technology - Cellulose and Its Derivatives.  
Paper.

H-33

Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 83793

Author : Roeske, A.

Inst : -

Title : The Production of Cellulose From Beech in German Democratic Republic.

Orig Pub : Przegl. papiern., 1958, 14, No 2, 42-45.

Abstract : Cellulose (C) from beech is produced in GDR by the sulfite method at a plant in Pirna which has old equipment and at a Agfa-Wolfen plant where the production is based on the nitric acid method. At present the plant produces C for synthetic fibers. The equipment is modern and is provided with control-measuring devices, the bleaching is a two-step process, the water consumption is from 90 to 120 m<sup>3</sup> per ton of C. The systems at the two plants and the indices of the C produced are cited. Sulfite liquors are

Card 1/2

ROESKE, Wojciech, doc. dr

Pharmacy in the 20-year period of the Polish People's Republic.  
Farmacja Pol 20 no. 13/14:477-483 J1 1964.



ROESKE, Wojciech

Pharmacy in the history of the Jagiellonian University. Acta  
Pol. pharm. 21 no.1:1-3 '64.

ROESKE, Wojciech, dr farm.

Social and economic role of pharmacy. *Farmacja Pol* 19 no.8:  
157-159 25 Ap '63.

ROESKE, Wojciech

Florian Sawiczewski (1797 - 1876). Pol. tyg. lek. 18 no.45:  
1698 4 N°63.

Pharmaceutical sciences. Ibid: 1701-1702

\*

HOESKE, Wojciech

Theriaca and its preparation in Poland in the XVII century.  
Acta pol. pharm. 20 no.3:277-282 '63.

(PHARMACY) (HISTORY OF MEDICINE, XVII CENT)

ROESKE, Wojciech, dr.farm.

Looking back one half of the century; women as pharmacists.  
Farmacja Pol 18 no.4:88-90 F '62.

[POLAND

ROESKE, Wojciech, Dr. pharm. [Affiliation not given]

"The Social and Economic Role of Pharmacy."

Warsaw, Farmacja Polska, Vol 19, No 8, 25 Apr 63, pp 157-159.

Abstract: The author finds the present status of the qualified pharmacist in Poland inconsistent with the modern social and economic requirements of pharmacy. The pharmacist finds himself socially far behind the doctor and has been limited professionally and economically to the drug store, with the result that it has become an unattractive profession for men and is mostly occupied by women to supplement family income. He advocates expanded training for pharmacists, revision of the areas and competences in the drug store operation, such as administrative and technical tasks, requiring a pharmacist's qualifications, and directing men to the creative and attractive channels of pharmaceutical engineering and industrial production. Polish pharmacy has a tradition for progress (led toxicology studies in Europe), which should be expanded to modern times. No references.

[1/1

ROESKE, Wojciech, dr.farm.

A balance of the past 50 years in the light of the resolutions  
of the First Pharmaceutical Congress. Farmacja Pol 18  
no.15/16:361-366 Ag '62.

\*

WOJEWSKI, Alfons; ROESSLER, Ryszard

Planocellular cancer of the kidney. Urol. polska 10:108-110 1956.

1. Z Oddziału Urologicznego P. A. M. w Szczecinie. Kierownik:  
dr A. Wojewski.

(KIDNEYS, neoplasms  
planocellular (Pol))



ROER, G. N.

ROER, G. N. Hydraulic excavator operators. Moskva, Mashstroizdat,  
1949. 86 p. (50-26829)

TN278.R6

CA

7

**Wet-bottom producer as a cupola furnace.** Karl Hensch and H. La Planche. *Neue Giesserei* 33/33, 85-7(1944); *Chem. Zentr.* (Russian Zone Ed.) 1949, I, 728.—The wet-bottom producer was shown to be useful for the preheating of the iron for the open-hearth furnace. The iron was transferred at a high temp. and had a low P content. A gas of high quality was simultaneously produced.  
M. C. Moore

ROESKE, Wojciech, dr farm.

Problems of the Polish Museum of Pharmacy, Farm.polska 11 no.6:  
140-141 June '55.

(PHARMACY,  
in Poland, museum of pharmacy)  
(MUSEUMS, MEDICAL,  
in Poland, museum of pharmacy)

BA

10  
10

The "capillary hydrophobia" (that makes oil) of H. Johann-Marx. W. Jettmar and F. C. Rosner. (*Kolloidzeits.*, 1951, 188, 3-11). — Johann-Marx (*ibid.* 1948, 111, 46) described the formation of oil, permitting for several sec., when certain pairs of miscible liquids are allowed to mix. The empirical equation  $x = (\sigma_1 - \sigma_2) (\sigma_1 - \sigma_0) < 0$ , where  $\sigma_1, \sigma_2$  are surface tensions, has been confirmed for a no. of pairs of pure liquids and mixtures, provided a third phase, either air or water, is present above. But for liquids floating on water in the absence of air,  $x$  must be  $> 0$ . The phenomenon occurs when surface tension causes the denser liquid to spread over the other, and gravity then causes the film to sink in the form of droplets. Diffusion ultimately brings about complete mixing after a time dependent on the  $\sigma$ .

A. B. DANHAM.

CA

*E. Udozumi Hironuma*  
3

The theory of the Raman effect. Frank C. Roesler  
(Tech. Hochschule, Graz, Austria). *Acta Phys. Austriaca*  
5, 477-96(1952).—Certain aspects of the theory of light  
scattering in condensed media are considered. Specifically  
these are: coupling of periodic and aperiodic motions in the  
scattering medium and light scattering and impact.  
R. F. Stamm

*Fuel Abstracts*

*Steam name of  
Engine M 11/1152*

4689. EXPERIENCE WITH POZZUOLANA CEMENT. Roesler, H. (Mitt. Ver. Grosskesselbesitz., 1952, (20), 210-212). Addition of 30% fine fly ash strengthens these cements, precludes the need for additional water and renders shrinkage normal. Compositions and characteristics are tabulated. (L)

WOJEWSKI, Alfons; KRAGON, Stanislaw; ROESSLER, Ryszard

Experimental production of renal tumors. Pol. przegl. chir.  
36 no.4a:Suppl.:583-589 Ap '64.

1. Z Kliniki Urologicznej Pomorskiej Akademii Medycznej w  
Szczecinie (Kierownik: doc. dr A. Wojewski).

WOJEWSKI, Alfons; LASKA, Alina; ROESSLER, Ryszard

Apropos of the production of tumors of the urinary bladder in experimental animals. Roczn. Pom. akad. med. Swierczewski 10: 549-556 '64.

1. Z Kliniki Urologicznej Pomorskiej Akademii Medycznej  
(Kierownik: doc. dr med. Alfons Wojewski).



ROESSLER, Ryszard

Radiation injuries of the ureters. Polski przegl. radiol. 26 no.2:  
165-170 '62.

1. Z Oddziału Urologicznego Pomorskiej AM w Szczecinie Kierownik:  
z-ca prof. dr med. A. Wojewski.  
(RADIOTHERAPY compl) (URETERS radiation eff)

ROESSLER, Ryszard

Disorders in the urinary system after radiation therapy. Gin.  
polska 32 no.5:613-619 '61.

1. Z Oidzialu Urologicznego Pomorskiej AM w Szczecinie Kierownik:  
zast. prof. dr med. A.Wojewski.  
(RADIATION INJURY) (UTERUE NEOPLASMS radiotherapy)  
(UROGENITAL SYSTEM radiation eff)

ROESSLER, Ryszard, PARAFINIUK, Wladyslaw

Angioma of the urethra. Pol. przegl. chir. 35 no.11: Supplement 1251-1254 N°63

1. Z Kliniki Urologicznej PAM w Szczecinie (kierownik: doc. dr. A. Wojewski) i z Zakladu Anatomii Patologicznej PAM w Szczecinie (kierownik: prof.dr. K.Stojalowski).

\*

ROESSLER, Ryszard

Initial signs of tuberculosis of the genito-urinary organs. Gruzlica  
29 no.12:1031-1035 D '61.

1. Z Oddziału Urologicznego PAM w Szczecinie Kierownik: prof. dr med.  
A. Wojewski z Państwowego Sanatorium Przeciwgruzliczego w Zdunowie  
Dyrektor: dr med. Z. Neciuk-Szczerbinski z Centralnej Wojewodzkiej  
Poradni Przeciwgruzliczej w Szczecinie Dyrektor: dr med. M. Mokrzycki.

(TUBERCULOSIS UROGENITAL diag)

MAKOWSKI, J.; ROESSLER, R.

Comparative electrophoretic studies on proteins in arterial and capillary blood. Acta physiol.polon.11 no.5/6:823-824 '60.

1. Z Zakladu Patologii Og. i Dosw. Pomorskiej A.M. w Szczecinie  
Kierownik: doc.dr. J.Makowski.  
(BLOOD PROTEINS)

ZWB-E Stelle-2496 T 3

ROESNER

EB061-71205

Temperatures in Subtropical Regions---Lufttemperaturen in Subtropischen Gebieten II---  
By Roesner Rechlin E Stelle Apr 1942 Germ Unclass 5P Incl Tables Graphs

Tables and diagrams show results of atmospheric temperature measurements in continental  
(rest of page cut)

SOURCE: AIR, AMC DESK CATALOG OF GERMAN AND JAPANESE AIR-TECHNICAL DOCUMENTS  
March 1948, P. 749, Unclassified.



ROETSKAYA

POLAND / Plant Diseases. Diseases of Cultivated Plants

N-3

Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 22980

Author : Roetskaya

Title : The Appearance of Grey Rot (*Botrytis cinerea* (Pers.) in Poland on Hemp (*Hibiscus cannabinus*).

Orig Pub : Roczn. nauk rolniczych., 1955, A72, No 1, 145-146

Abstract : The first time that the disease was noticed in Poland on hemp was in 1953 on the plantation of the Institute of Feeds and Plant Acclimatization in Pulavi. The disease appeared after early frosts in the first half of September on leaves, stems and plant generating organs; developing rapidly, it almost totally destroyed the plantation. The severity of the disease was the result of unfavorable conditions -- a heavy argillaceous soil, the planting density, northwestern slope, extreme infection by *B. cinerea* of the whole territory, and abundant precipitation that year. A number of prophylactic measures and utilization of agricultural methods are recommended in order to increase disease resistance of hemp.

Card : 1/1



W. BYLINSKI, M. A.

26669

Vnnyaslyeniye v nyelinyonykh simyetrichnykh  
elyektrichyeskikh k magnitnykh tseyevakh. Doklady  
akad, nauk SSSR, Novaya syeriya, t. lxviii, No. 3,  
1949, s. 497-500

SO: LETOPIS' NO. 40

ROFE, A.E., dotsent; NAPADOV, M.A., kand.med.nauk

"Al'gelast-1" elastic alginate impress material. Vrach.delo no.8:  
867-869 Ag '59.

(MIRA 12:12)

1. Khar'kovskiy zavod zubovrachebnykh materialov.  
(ALGAE) (DENTAL PROSTHESIS)

11.11  
BRODSKIY, I.Ye., inzhener; ROFE, A.E., kandidat meditsinskikh nauk.

"AKR-P" plastic material and possibilities of its practical use in dental orthopedics. Stomatologiya no.5:53-54 S-0 '55. (MLRA 9:2)

1. Iz Khar'kovskogo zavoda zubovrachebnykh materialov (dir. Ye.G. Aronov)

(GUMS AND RESINS, SYNTHETIC) (DENTAL PROSTHESIS)

ROFE, A.E.

✓ Plastic compositions for dental work. I. E. Brodsky, A. E. Rofe, and D. Sh. Golberg. U.S.P. 102,820, Sept. 26, 1959. Comps. particularly suitable for making single *Matts*

2

artificial teeth consist of copolymers of styrene, Me methacrylate, and di-Bu phthalate, plus poly(methyl methacrylate) and di-Bu phthalate. A recommended compn. is prepd. from 85 parts copolymer and 15 parts poly(methyl methacrylate) by wt. The copolymer is made up of styrene 20, Me methacrylate 73, and Bu phthalate 5%, while the poly(methyl methacrylate) is made up of Me methacrylate 85 and di-Bu phthalate 5%. To this compn. is added 10 parts di-Bu phthalate.  
M. Hosen

BUGROV, V.A.; ROFE, A.I.

Potentials of the petroleum refineries of the Lvov Economic  
Region for improving the use of productive capacities. Neft.  
i gaz. prom. no.2:59-61 Ap-Je '64. (MIRA 17:9)

GERNER, M.M.; ARONOV, Ye.G.; ROFE, A.Ye.; KALONTAROV, D.Ye.,  
red.; KOKIN, N.M., tekhn. red.

[Study of materials for stomatology] Materialovedenie po  
stomatologii. Moskva, Medgiz, 1962. 255 p. (MIRA 16:5)  
(STOMATOLOGY--EQUIPMENT AND SUPPLIES)

ROFE, Yu.S., inzh.

The UBSH2 machine for boring holes. Stroi. truboprov. 8 no.1:  
30-31 Ja '63. (MIRA 16:5)

1. Spetsial'noye konstruktorskoye byuro "Gazstroy Mashina".  
(Boring machinery)

ROPE, Yu.S., inzh.

Machine for boring holes. Stroi. truboprov. 5 no.4:25-27  
Ap '60.

(MIRA 13:9)

(Boring machinery)



ROFE, Yu.S., inzh.

Machine with two drills for boring holes. Stroi. truboprov. 6 no.4:  
12 Ap '61.

(Rock drills)

(MIRA 14:6)

SKOPETS, Z.A. (Yaroslavl'); OSTROVSKIY, A.I. (Moskva); BESHIN, L.N. (Moskva);  
BALK, M.B. (Smolensk'); BORSUK, M.V. (Lvov); BYKOV, A.M. (Baku);  
CHANTURIYA, Z.A. (Tbilisi); NOVIKOVA, V.S. (Orskhovo-Zuyevo); DUBNOV,  
Ya.S. (Moskva); STECHIN, S.B. (Moskva); KHAVIN, I.P. (Leningrad);  
ERDNIYEV, P., (Stavropol'); CHIAREULI, D.L. (GruzSSR); ASEKRITOV, U.M.  
(Yaroslavl'); GOLUBEV, V.A. (Kuvshino); MALIMIN, V.V. (Leningrad);  
DAVYDOV, U. (Gornal'); ROZENBERG, V.I. (Leningrad); TIKHONOV, P.G.  
(Keraganda); ROMANCHUK, M.A. (Khar'kov); MINLOS, R.A. (Moskva); OGAY,  
S.V. (Trunze); ROPE-BELITOV, F.S.; BERSHTEYN, A. (Moskva); ARLAZAROV,  
V.L. (Moskva)

Solutions to problems. Mat.pros. no.4:253-270 '57.

(MIRA 12:11)

(Mathematics--Problems, exercises, etc.)

ROFE-BEKETOV, F.S. (Khar'kov)

Expansion of infinite simultaneous differential equations in  
non-self-conjugate and self-conjugate cases into eigenfunctions.  
Mat.sbor. 51 no.3:293-342 J1 '60. (MIRA 13:8)  
(Differential equations)  
(Eigenfunctions)

ACCESSION NR: AP3009463

S/0020/63/152/006/1312/1315

AUTHOR: Rofe-Beketov, F. S.

TITLE: Concerning the spectrum of non-self-adjoint differential operators with periodic coefficients

SOURCE: AN SSSR. Doklady\*, v. 152, no. 6, 1963, 1312-1315

TOPIC TAGS: analysis, non-self-adjoint differential operator, differential operator

ABSTRACT: Several results are given on the topology of the spectrum of an n-th order linear differential equation with periodic complex coefficients. The principal theorem states that the spectrum of the operator associated with the equation coincides with the set of conditional stability of the equation. Orig. art. has: 12 equations.

ASSOCIATION: Fiziko-tehnicheskiiy institut nizkikh temperatur Akademii nauk UkrSSR (Low-temperature physics-engineering insti-

Card 1/2

88200

16.1-00  
16.4600

S/039/60/051/003/001/001  
C111/C222

AUTHOR: Rofe-Beketov, F.S. (Khar'kov)

TITLE: Development in Terms of Eigenfunctions of the Infinite Systems  
of Differential Equations in Non-Selfadjoint and Selfadjoint Cases

PERIODICAL: Matematicheskiy sbornik, 1960, Vol.51, No.3, pp.293-342.

TEXT: The following notations are used: H is a separable Hilbert space; an operator function and a vector function, respectively, is a function the values of which are operators and vectors, respectively; Z is a linear topological space consisting of all even entire summable functions  $\varphi(\lambda)$  of finite degree; T(Z) is the set of all generalized functions in Z; (l,h) is the scalar product in H; H(0,N),  $N \leq \infty$  is the (complete) Hilbert space of the vector functions (with values of H) the amount of which on (0,N) is integrable in the square;  $\vec{W}_N^2$  is the subspace of H(0, $\infty$ ) consisting of even entire vector functions the degree of which is  $\leq N$ ;  $L_{[g]}^2$  is the Hilbert space of the vector functions with the scalar product

$$(13.0) \langle \vec{l}(\lambda), \vec{h}(\lambda) \rangle_g = \int_{-\infty}^{\infty} ([d_g(\lambda)] \vec{l}(\lambda), \vec{h}(\lambda)) = \int_{-\infty}^{\infty} \sum_{i,k=1}^{\infty} l_k(\lambda) h_i(\lambda) d_{ik}(\lambda),$$

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where  $\mathfrak{g}(\lambda) = [\mathfrak{g}_{ik}(\lambda)]$  is a selfadjoint non-decreasing operator-  
(matrix)-distribution function, i.e.  $\Delta \mathfrak{g}(\lambda) = \mathfrak{g}(\lambda + \Delta \lambda) - \mathfrak{g}(\lambda)$  for  
 $\Delta \lambda > 0$ ; here besides it holds

(12.0)  $\mathfrak{g}(\lambda - 0) = \mathfrak{g}(\lambda).$

In chapter I the author considers the boundary value problem

(A)  $l[y] \equiv -y'' + q(x)y = \lambda^2 y \quad (0 \leq x < \infty)$

(B)  $y'(0) - Ay(0) = 0,$

where  $q(x)$  is a continuous operator function with generally non-self-  
adjoint values,  $A$  is a bounded operator. The solutions  $y(x)$  of (A)-(B)  
may be operator or vector functions. Beside of (A)-(B) the author  
considers the transposed problem

(A')  $\tilde{l}[y] \equiv -y'' + yq(y) = \lambda^2 y \quad (0 \leq x < \infty)$

(B')  $y'(0) - y(0)A = 0.$

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Let  $\omega(x, \lambda)$  and  $\tilde{\omega}(x, \lambda)$ , respectively, be the operator solution of  
the system (A)-(B) with the initial conditions

$$(3.1.1) \quad \omega(0, \lambda) = I, \quad \omega'(0, \lambda) = A$$

and the system (A')-(B') with the initial conditions

$$(5.1.1) \quad \tilde{\omega}(0, \lambda) = I, \quad \tilde{\omega}'(0, \lambda) = A,$$

respectively.

At first it is proved that there exist kernels  $K(x, t)$ ,  $\tilde{K}(x, t)$  being  
operator functions of  $x, t$  and vanishing for  $t > x$  so that there hold  
the representations

$$(1.2.1) \quad \omega(x, \lambda) = I \cos \lambda x + \int_0^x K(x, t) \cos \lambda t \, dt,$$

$$(2.2.1) \quad \tilde{\omega}(x, \lambda) = I \cos \lambda x + \int_0^x \cos \lambda t \cdot K(x, t) \, dt,$$

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where  $I$  is the unit operator in  $H$ . For the kernels the author gives  
an integral equation the solution of which is obtained by iteration  
as follows:

$$K(x, t) = \sum_{n=0}^{\infty} K_n(x, t), \quad K_{n+1}(x, t) = \frac{1}{2} \iint_{R(x, t)} q(s) K_n(s, \xi) ds d\xi,$$

(5.2.1)  $K_0(x, t) = A + \frac{1}{2} \int_{\frac{t-x}{2}}^{\frac{t+x}{2}} q(s) ds,$

where  $R(x, t)$  is a rectangle of the  $(s, \xi)$ -plane the sides of which are  
parallel to the straight lines  $\xi = \pm s$  and which has the diagonally  
opposite corners  $(0, 0)$  and  $(x, t)$ .

Then it is shown that reversely it holds

$$(1.3.1) \quad I \cos \lambda x = \omega(x, \lambda) - \int_0^x H(x, t) \omega(t, \lambda) dt,$$

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$$(2.3.1) \quad I \cos \lambda x = \tilde{\omega}(x, \lambda) - \int_0^x \tilde{\omega}(t, \lambda) \tilde{H}(x, t) dt,$$

where the kernels satisfy the equations

$$(5.3.1) \quad H(x, t) = K(x, t) - \int_t^x H(x, s) K(s, t) ds,$$

$$(6.3.1) \quad \tilde{H}(x, t) = \tilde{K}(x, t) - \int_t^x \tilde{K}(s, t) \tilde{H}(x, s) ds.$$

The connection between  $\omega$  and  $\tilde{\omega}$ -transformations, respectively, and the cosine-transformations of finite operator functions is investigated. Here the cosine and the  $\omega$ -transformations, respectively, of a finite operator function  $f(x)$  are defined by

$$(1.4.1) \quad C_f(\lambda) = \int_0^{\infty} f(x) \cos \lambda x dx$$

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and

$$(3.4.1) \quad E_f(\lambda) = \int_0^{\infty} f(x) \omega(x, \lambda) dx,$$

respectively. It is shown: Every  $\omega$ -transformation of a finite  $f(x)$  is simultaneously a cosine-transformation of a certain other uniquely determined operator function  $f_1(x)$ , and reversely.

In chapter II the author considers the spectral matrix and the reversion problem in the non-selfadjoint case.

Theorem 1: Every operator - boundary value problem (A)-(B) in the separable Hilbert space generates a spectral matrix  $R = [R_{ik}]$  with elements  $R_{ik} \in T(Z)$  so that it holds

$$(4.1.2) \quad [E_f(\lambda) \widetilde{R} E_g(\lambda)] = \int_0^{\infty} f(x) g(x) dx$$

where  $f(x)$  and  $g(x)$  are piecewise continuous finite operator functions,  $E_f(\lambda)$  and  $\widetilde{E}_g(\lambda)$  are their  $\omega$  and  $\overline{\omega}$ -transformations, respectively, and according to the definition it holds

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$$(42.1.2) \quad [F(\lambda)RG(\lambda)] = \left[ \sum_{j,l=1}^{\infty} (F_{ij}(\lambda)G_{lk}(\lambda), R_{jl}) \right]_{i,k=1}^{\infty}$$

Theorem 2: In order that the matrix R with the elements  $R_{ik} \in T(Z)$  is the spectral matrix of a boundary value problem (A)-(B), where the operator function  $q(x)$  has  $n \geq 0$  continuous derivatives, it is necessary and sufficient that

1° The operator function

$$(1.3.2) \quad \phi_0(x) = \left[ \frac{1 - \cos \lambda x}{\lambda^2}, R \right] - I \cdot |x|$$

for  $x \in [0, \pi]$  has  $n+3$  continuous derivatives, where

$$(2.3.2) \quad \phi_0'(0) = 0.$$

2° For  $\varepsilon(N) > 0$  and an arbitrary vector function  $\vec{G}(\lambda)$  of  $\vec{W}_N^2$  it holds:  
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$$(3.3.2) \sup_{\|\vec{x}(\lambda)\|=1} |[\vec{c}(\lambda)R\vec{x}(\lambda)]| \geq \varepsilon(N)\|\vec{c}(\lambda)\|, \quad \vec{c}(\lambda), \vec{x}(\lambda) \in \mathbb{W}_N^2,$$

$$(4.3.2) \sup_{\|\vec{x}(\lambda)\|=1} |[\vec{x}(\lambda)R\vec{g}(\lambda)]| \geq \varepsilon(N)\|\vec{g}(\lambda)\|, \quad \vec{c}(\lambda), \vec{x}(\lambda) \in \mathbb{W}_N^2.$$

Here  $q(x)$  and  $(A)$  are determined uniquely by  $R$ .

In chapter III the author considers the problem (A)-(B) for the self-adjoint case  $A^* = A$ ,  $q^*(x) = q(x)$ ,  $0 \leq x < \infty$ . It is shown (theorem 4) that then the spectral matrix  $R$  of the problem is an operator measure, i.e. that it holds

$$(1.6.3) [F(\lambda)R\vec{g}(\lambda)] = \int_0^\infty F(\sqrt{\lambda}) [d\varrho(\lambda)] \vec{g}(\sqrt{\lambda}),$$

where  $\varrho(\lambda)$  is a non-decreasing operator function,  $F(\lambda)$ ,  $G(\lambda)$  is an even entire operator function of finite degree,  $(|F(\lambda)| \cdot |G(\lambda)|) \in L^1(0, \infty)$ . Here it holds the Parseval equation

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$$(2.6.3) \quad \int_{-\infty}^{\infty} E_f(\sqrt{\lambda}) [d\varrho(\lambda)] E_g^*(\sqrt{\lambda}) = \int_0^{\infty} f(x) g^*(x) dx,$$

where  $f(x)$ ,  $g(x)$  are finite piecewise continuous operator functions.  
For arbitrary vector functions of  $H(0, \infty)$  it holds

$$(3.6.3) \quad \int_{-\infty}^{\infty} ([d\varrho(\lambda)] \tilde{E}_f(\sqrt{\lambda})) = \int_0^{\infty} (\vec{f}(x), \vec{g}(x)) dx, \quad X$$

where

$$(4.6.3) \quad \tilde{E}_f(\sqrt{\lambda}) = \text{l.i.m.}_{N \rightarrow \infty} \int_0^N \omega^*(x, \sqrt{\lambda}) \vec{f}(x) dx,$$

$$(5.6.3) \quad \vec{f}(x) = \text{l.i.m.}_{N \rightarrow \infty} \int_{-N}^N \omega(x, \sqrt{\lambda}) [d\varrho(\lambda)] \tilde{E}_f^*(\sqrt{\lambda});$$

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the first integral converges to the norm of  $L^2$ , the second integral  
converges to the norm of  $H(0, \infty)$ .

The author mentions V.A. Marchenko, I.M. Gel'fand, B.M. Levitan, M.G. Kreyn,  
A.G. Kostyuchenko and Yu.M. Berezanskiy. There are 22 references:  
18 Soviet, 2 German, 1 American and 1 Swedish.

SUBMITTED: August 6, 1958

Card 10/10

BOFD-BERKOV, F.S.

Expansion in eigenfunctions of systems with summable potentials.  
Dokl. AN SSSR 156 no. 5:1029-1032 Je '64. (MIRA 17:6)

1. Fiziko-tekhnicheskii institut niskikh temperatur AN UkrSSR.  
Predstavleno akademikom I.G.Petrovskim.

ROFE-BEKETOV, F.S.

Spectrum of non-self-adjoint differential operators with  
periodic coefficients. Dokl. AN SSSR 152 no.6:1312-1315 0 '63.  
(MIRA 16:11)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur AN  
UkrSSR. Predstavleno akademikom S.N. Bernshteynom.



ACCESSION NR: AP4038516

8/0020/64/156/003/0515/0518

AUTHOR: Rofe-Beketov, F. S.

TITLE: A criterion for the finiteness of the number of eigen values in the gaps of the continuous spectrum of a perturbed periodic potential

SOURCE: AN SSSR. Doklady\*, v. 156, no. 3, 1964, 515-518

TOPIC TAGS: ordinary differential equation, Sturm Liouville system, self adjoint problem, boundary value problem, spectral theory

ABSTRACT: It is known that for a real, periodic potential  $q(x)$ , the problem

$$y'' + (\lambda - q(x))y = 0, \quad -\infty < x < \infty, \quad (1)$$

has a purely continuous spectrum, bounded below and consisting of a set of intervals stretching to  $+\infty$ , and separated by gaps (the length of each gap approaches 0 as  $\lambda \rightarrow +\infty$ ). If the real, non-periodic perturbation  $p(x)$  is small enough in some sense as  $x \rightarrow +\infty$  (for example under condition (3) below), then the problem

$$y'' + (\lambda - q(x) - p(x))y = 0, \quad -\infty < x < \infty, \quad (2)$$

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ACCESSION NR: AP4038516

has the same continuous spectrum as problem (1), but in addition each gap may contain a finite or an infinite number of discrete eigen-values. Answering a question put by M. Sh. Birman and I. M. Glazman, the author proves that if  $p(x)$  satisfies the condition

$$\int_{-\infty}^{\infty} (1 + |x|) |p(x)| dx < \infty \quad (3)$$

then each gap has at most a finite number of eigen-values, and each gap sufficiently far from the origin contains not more than two eigen-values. The main part of the proof uses I. M. Glazman's "splitting method", i.e. one considers equation (2) on the intervals  $(-\infty, -M^1)$ ,  $(-M^1, M)$ ,  $(M, \infty)$  and the boundary conditions  $y(-M^1) = y(M) = 0$ , with a judicious choice of  $M, M^1$  for each gap. "The author expresses his deep gratitude to N. I. Akhiezer and I. M. Glazman for their interest in this work." Orig. art. has: 8 equations.

ASSOCIATION: Fiziko-tekhnicheskiy institut nizkikh temperatur Akademii nauk USSR  
(Low-Temperature Physics-Engineering Institute, Academy of Sciences, USSR)

SUBMITTED: 13Jan64

ENCL: 00

Card 2/3

MARCHENKO, V.A.; ROFE-BEKETOV, F.S.

Expansion of nonself-conjugated singular differential operators  
into eigen functions. Dokl. AN SSSR 120 no. 5:963-966 Je '58.  
(MIRA 11:8)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M.Gor'kogo.  
Predstavleno akademikom S.N.Bernshteynom.  
(Operators(Mathematics))  
(Eigenfunctions)

ZALGALLER, S.I. (Leningrad); SKOPETS, Z.A. (Yaroslavl'); ROFE-BEKETOV, F.S.  
(Khar'kov); LANDIS, Ye.M. (Moskva); LEVIN, V.I. (Moskva); STECHKIN,  
S.B. (Moskva); LYAPUNOV, A.A. (Moskva); ARNOL'D, V.I. (Moskva);  
LOPSHITS, A.M. (Moskva)

Problems of higher mathematics. Mat.pros. no.3:270-274 '58.  
(MIRA 11:9)  
(Mathematics--Problems, exercises, etc.)

AUTHOR: Marchenko, V.A., Rofe-Beketov, F.S. 20-120-5-9/67  
TITLE: Expansion in Terms of Eigenfunctions of Non-Selfadjoint Singular  
Differential Operators (Razlozheniye po sobstvennym funktsiyam  
nesamosopryazhennykh singulyarnykh differentsial'nykh operatorov)  
PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 120, Nr 5, pp 963-966 (USSR)  
ABSTRACT: The authors consider an arbitrary non-selfadjoint boundary value  
problem

$$(1) \quad \begin{aligned} l[y] \equiv y'' - q(x)y - \lambda^2 y &= 0 & (0 \leq x < \infty) \\ y'(0) - Ay(0) &= 0 \end{aligned}$$

and analogous problems for finite and infinite systems of differential equations. Here  $q(x)$  is an arbitrary function summable on every finite interval and  $A$  is an arbitrary complex number. The authors extend the notion of the spectral function  $\mathfrak{g}(\lambda)$  proved by H. Weyl [Ref 1] for the selfadjoint case: Now  $\mathfrak{g}(\lambda)$  is a generalized function in a topological space  $Z$ . At the same time the expansion formulas of Weyl [Ref 1] are generalized too. The authors give conditions that a generalized function is the spectral function of the problem (1). The generalized functions used by the authors correspond best to the scheme of Gel'fand and Shilov

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Expansion in Terms of Eigenfunctions of Non-Selfadjoint Singular  
Differential Operators 20-120-5-9, 67

[Ref 2]. Altogether five theorems are announced which essentially represent an extension of results well-known in the selfadjoint case [Ref 4,5] to the non-selfadjoint case. There are 7 references, 5 of which are Soviet, 1 German and 1 Swedish.

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet imeni A.M.Gor'kogo  
(Kharkov State University imeni A.M.Gor'kiy)  
PRESENTED: February 3, 1958, by S.N.Bernshteyn, Academician  
SUBMITTED: February 2, 1958

1. Mathematics 2. Operators (Mathematics)

Card 2/2

GRADSHTEYN, I.S. (Moscow) ROZE-BEKETOV, F.S. (Khar'kov); MINLOS, R.A. (Moscow)  
SKOPETS, Z.A. (Yaroslavl'); GEL'FOND, A.O. (Moscow); YAGLOM, A.M.  
(Moscow); ROBINSON, R.M. (SShA); DUBNOV, Ya.S. (Moscow); STECHKIN,  
S.B. (Moscow)

Problems of higher mathematics. Mat. pres. no.1:224-227 '57.  
(MIRA 11:7)

(Mathematics--Problems, exercises, etc.)

ROFE-BEKETOV, F. S., Cand Phys-Math Sci -- "Certain problems of the spectral analysis of infinite systems of differential equations." Kiev, 1961. (Council of Ministers UkSSR. Acad Sci UkSSR. Inst of Math Acad Sci UkSSR) (KL, 8-61, 228)



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Floating or track-laying shovel excavator. Stroi. i dor. mash.  
7 no.12:1-3 D '62. (MIRA 16:1)

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BOG, F.; SERGEYEV, M.

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November 1959  
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operating auto repair establishments. Avt.transp. 32 no.7:25-27  
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(for Iszkowski). 2. Lengyel Statisztikai Fohivatal elnokhelyettese  
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Wrote an article on Diamond-substitute Disks for Trueing Grinding Wheels developed by All-Union Scientific-Research Institute of Abrasives and Grinding, Leningrad, Leningradskaya o., RSFSR

Soviet Source: P: Automobil', No. 5, May 1950, Moscow  
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127 p. illus., diags., tables.

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[Smoothness of auto part surfaces used in repairwork] Chistota  
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ROG, Viktor Abramovich; GRECHKO, V.M., red.; LAKHMAN, F.Ye., tekhn.red.

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РСР, ВИНО

191400

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K09, V 137.

Synthesis and transformations of oxygen-containing  
organosilicon compounds. II. Reaction of diethyl- and  
diphenylsilanediols with vinyl ethers. M. F. Shustak-  
ovskii, D. A. Kochkin, and V. M. Rog. *Bull. Acad. Sci.*  
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Reg., V. M.

8000

~~Synthesis and transformations of oxygen-containing organosilicon compounds. II. Reaction of diethyl- and diphenylsilanediols with vinyl ethers. M. P. Shostakovskii, D. A. Kochkin, and V. M. Rog (N. D. Zelinski Inst. Org. Chem., Moscow). ~~Chem. Abstr.~~ *Nauk S.S.S.R., Otdel. Khim. Nauk* 1955, 953-5; cf. C.A. 50, 5550d.—Et<sub>2</sub>Si(OH)<sub>2</sub> (12 g.) and 50 g. BuOCH=CH<sub>2</sub> treated with 1 drop concd. HCl and heated 1.5-2 hrs. at 60° yielded 37% Et<sub>2</sub>Si(OCH<sub>2</sub>MeOBu)<sub>2</sub>; b<sub>p</sub> 127-9°, n<sub>D</sub><sup>20</sup> 1.4270, d<sub>4</sub> 0.9010; and a residue of polysiloxanes. The product treated with 5% H<sub>2</sub>SO<sub>4</sub> 3-4 hrs. at 100° gave 85-8% AcH. Similar reaction of Ph<sub>2</sub>Si(OH)<sub>2</sub> with BuOCH=CH<sub>2</sub> gave MeCH(OBu)<sub>2</sub> and a high-boiling material from which it was impossible to isolate the expected siloxacetal Ph<sub>2</sub>Si(OCH<sub>2</sub>MeOBu)<sub>2</sub>; owing to its thermal instability. Hydrolysis with dil. acid readily gave 82-3% AcH. G. M. Kosolapoff~~

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SHOSTAKOVSKIY, M.F.; KOCHKIN, D.A.; ROG, V.M.

Investigation into the synthesis and conversion of organic silicon compounds which contain oxygen. Part 2. The reactions of diethyl- and diphenylsilan diols with vinyl ethers. Izv. AN SSSR. Otd.khim. nauk no.5:953-955 S-0 '55. (MLBA 9:1)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo Akademii nauk SSSR. (Vinyl ethers) (Silanediol)

*Roga B.*

H-22

POLAND/Chemical Technology - Chemical Products and Their  
Application - Treatment of Solid Mineral Fuels.

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, 9206

Author : Roga B., Ihnatowicz A.

Inst : Main Institute of Mining.

Title : Investigation of the Process of Dry Distillation of Solid Fuels.

Orig Pub : Przegl. gorniczy, 1956, 12, No 10, Biul. Glownego Inst. Gornictwa, 19-28

Abstract : An investigation was made of the process of dry distillation of Polish fuels: peat, brown coal and 3 varieties of coal, at a constant rate of heating; the variable parameter was the distillation temperature; the experiments were conducted using the Grey-King apparatus. Correlations were determined between yields of distillation products and

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POLAND/Chemical Technology - Chemical Products and Their  
Application - Treatment of Solid Mineral Fuels.

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Abs Jour : Ref Zhur - Khimiya, No 3, 1973, 9206

their composition, on the one hand, and temperature of the process and degree of carbonization of the fuel, on the other. It is shown that the highest yield of tar is obtained over the temperature range of 450-600°; the amount of emitted water of decomposition and of CO<sub>2</sub>, as well as the amount of emitted H<sub>2</sub>, are characteristic of the degree of carbonization of the fuel.

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