GERO, Sandor, dr.; GERGELY, Janos, dr.; DEVENYI, Tibor; JAKAB, Lajos, dr.; SZEKELY, Judit, dr.; VIRAG, Sandor, dr.

Role of mucoid substances of the blood vessel in the pathogenesis of atherosclerosis. Orv. hetil. 102 no.25:1165-1168 18 Je '61.

1. Budapesti Orvostudomanyi Egyetem, III sz. Belklinika.

(ARTERIOSCLEROSIS etiol)
(BLOOD VESSELS chem)

GERGELY, Janos, dr.; GERO, Sandor, dr.: JAKAB, Lajos, dr.; SZEKELY, Judit, dr.; VIRAG, Sandor, dr.; CZUPPON, Alfred, dr.

Studies on beta-lipoprotein antigens. Antigenic relationship between beta-lipoproteins from atherosclerotic patients and experimental animals. Orv.hetil. 102 no.31:1450-1452 30 Jl '61.

1. Budapesti Orvostudomanyi Egyetem, III. sz. Belklinika es a MTA Muszaki Fizikai Kutato Intezet Mikomorfologiai Osztalya.

(ARTERIOSCLEROSIS immunol) (LIPOPROTEINS blood)
(ANTIGENS)

GERO, Sandor, dr.; GERGELY, Janos, dr.; DEVENYI, Tibor, dr.; JAKAB, Lajos, dr.; SZEKELY, Judit, dr.; VIRAG, Sandor, dr.

Effect of mucopolysaccharides on the auto-lipolytic activity of the vascular wall. Orv. hetil. 103 no.17:781-782 29 Ap '62.

1. Budapesti Orvostudomanyi Egyetem, III sz. Belklinika.

(MUCOPOLYSACCHARIDES pharmacol)
(LIPIDS metab)
(BLOOD VESSELS pharmacol)

HUNGARY

KELLER, Laszlo, Dr, RETSAGI, Gyorgy, Dr, BIRY, Lujza, Dr, GERGELY, Janos, Dr, GERO, Sandor, Dr; Medical University of Budapest, III. Medical Clinic (Budapesti Orvostudomanyi Egyeten, III. Belklinika).

"Results with Some Antilipaemic Compounds."

Budapest, Orvosi Hetilap, Vol 104, No 22, 2 June 63, pages 1024-1025.

Abstract: [Authors' Hungarian summary] The authors discuss the pathogenetical basis of antilipaemic treatment of atherosclerosis. They report their experiences gained during treatment of 159 patients suffering from coronary sclerosis with compounds having different action mechanisms. The results in terms of the number of cases treated successfully as well as in terms of the decrease in the serum lipid level were, so far, unsatisfactory. Better results can only be hoped for with the introduction or combined use of drugs with greater potency and less side effects. 3 Hungarian, 17 Western references.

1/1

[illegible], Medical University of [illegible], III. Medical Clinic [illegible] Orvostudomanyi Egyetem, III. Belgyogyaszati Klinika, [illegible].

"The β-Lipoprotein-Binding Component of Mucopolysaccharides of the Intima."

Budapest, Orvosi Hetilap, Vol 104, No 5, 31 Jan 63, pages 1401-1404.

Abstract: [Authors' Hungarian summary modified] Using the turbidimetric procedure of Amuta and Waters, the authors investigated the β-lipoprotein (β-LP) binding ability of mucopolysaccharides (MPS) of different origin and their fractions. A relation was found to exist between the β-LP binding ability and the hexuronic acid content of the MPS preparations investigated. During fractionation of MPS compounds isolated from the aorta intima, it was shown that heparitine sulphate was the only fraction able to form a complex with β-LP. Based on previous and current investigations it is suggested that plasma lipoid deposits start with the building of the heparitine sulphate-β-LP complex. It is possible that investigations of the interaction between MPS of the intima and β-LP by other techniques (electrophoresis), will demonstrate other components in the formation of the complex. In the lipoid composition of the deposits other, local biochemical processes take part as well, of course. 25 Western, 4 Hungarian references.

1/1

HUNGARY

BIHARI-VARGA, Magdolna, Dr, GERGELY, Janos, Dr, GERO, Sandor, Dr; Medical University of Budapest, III. Medical Clinic (Budapesti Orvostudomanyi Egyetem, III. Belklinika).

"Investigation of the Complex Formed Between the Mucopolysaccharides of the Aorta and β-Lipoprotein (Preliminary Communication)."

Budapest, Orvosi Hetilap, Vol 104, No 45, 10 Nov 63, pages 2130-2132.

Abstract: A new electrophoretic method has been used by the authors for the investigation of the complex formation between MPS and β-LP. The results are illustrated by photographs. The in vitro interaction, found to be present, may play a role in the deposition of β-LP in the intima. Changes of the intima, such as accumulation of MPS and other physico-chemical factors, may produce local conditions which promote the development of ateroma. 2 Hungarian, 9 Western references.

1/1

[illegible], Gy. [illegible]; [illegible], [illegible]

Serum cholesterol and total lipid levels in coronary heart disease. Cor Vasa 7 no.1:14-27 '65

1. [illegible] Department of Medicine, Medical University of B[illegible]pest.

HUNGARY

BIHARI-VARGA, Magdolna, and GERO, Sandor, Third Clinic of Internal Medicine at the Medical University (Orvostudomanyi Egyetem III. sz. Belklinikaja) in Budapest.

"Role of Intimal Mucoid Substances in the Pathogenesis of Atherosclerosis. Investigation on the Interacting Components in the Mucopolysaccharide-Beta-Lipoprotein Complex Formation in Vitro"

Budapest, Acta Physiologica Academiae Scientiarum Hungaricae, Vol 29, No 3-4, 8 Jun 1966, pp 273-281.

Abstract: [English article; authors' English summary, modified] The relations between the composition of aortic mucopolysaccharides and their complex-forming property were studied by turbidimetry. The interaction was studied between beta-LP and individual MPS fractions obtained by different fractionating methods. Heparitin sulfate was the only component in the intimal MPS preparations to precipitate serum beta-LP at pH 7.4. In the formation of soluble complexes at pH 8.6 heparitin sulfate and chondroitin sulfate were found to take part. 26 references, including 4 Hungarian, 2 German, and 20 Western. (Manuscript received 27 Jul 1965).

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GERO, T., Ing.

Asbestos-cement pressure pipe couplings. Stavivo 42 no. 6: 209-212 '64.

1. Asbestocementove zavody National Enterprise, Nitra.

GERO, T., inz.

Raw asbestos fiber finishing for the asbestos-cement industry.
Stavivo 42 no.10:371-374 O '64.

1. Asbestocementove zavody National Enterprise, Nitra.

GEROCH, STANISLAW PA 30T20

POLAND/Geology Aug 1947

"Report on Geological Field Work on the 1:100,000 Sheets of Czestochowa and Wozniki (Central Poland) in 1946," Stanislaw Gerooh, 10 pp

"Biuletyn, Panstwowy Instytut Geologiczny" No 31

Research to prepare a geological map of the area, and to mark a boundary line between the ore-bearing clays and the Koscieliska sandstone complex. The area investigated lies southwest of Czestochowa and embraces the localities of Konopiska, Kopalnia, Aleksandria I and II and, in part, Herby Slaskie and Gnaszyn.

SI 30T20

GEROCH, S

GEROCH, S. and R. GRADZINSKI. Stratigraphy of the Sub-Silesian Series in the Tectonic Window in the Zywiec Region. Rocznik, Krakow (Polish Geological Society), 1954, v. 24, no. 1, p. 3 (publ. 1955).

G [illegible]CCH, S.: G[illegible]AL[illegible]I[illegible]SKI, [illegible].

G[illegible]CCH, S. G[illegible]ALINSKI, [illegible]. Stratigra[illegible] of the [illegible]-Si[illegible]sian [illegible] in the tectonic window in the [illegible] region. p. [illegible]3.

V[illegible].. 24 No. 1, 19[illegible] (published 195[illegible])
[illegible]CC[illegible]NIK.
[illegible]oland
GEOGRAPHY & GEOLOGY

So: East European Accessions, Vol. 5, No. 5, May 1956

GERLACH, S.

"Uvigerinammina jankoi Majzon (Foraminifera) in the Carpathian Flysch."

p. 231 (Rocznik) Vol. 25, no. 3, 1955 (published 1957)
Krakow, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

GEROCH, Stanislaw

Thalmannammina and Plectorecurvoides (Foraminifera) in the Lower Cretaceous of the Flysch Carpathians. Rocz geol Krakow 32 no.2: 281-300 '62

1. Department of Geology, Jagellonian University, Krakow.

ALEXANDROWICZ, Stefan Withold; GLAZEK, Stanislaw

Association of small Foraminifera in the Eocene of the Tatra.
Rocz geol Krakow 33 no.1/3:219-228 '63.

1. Katedra Geologii, Akademia Gorniczo-Hutnicza, Krakow, i Katedra Geologii, Uniwersytet Jagiellonski, Krakow.

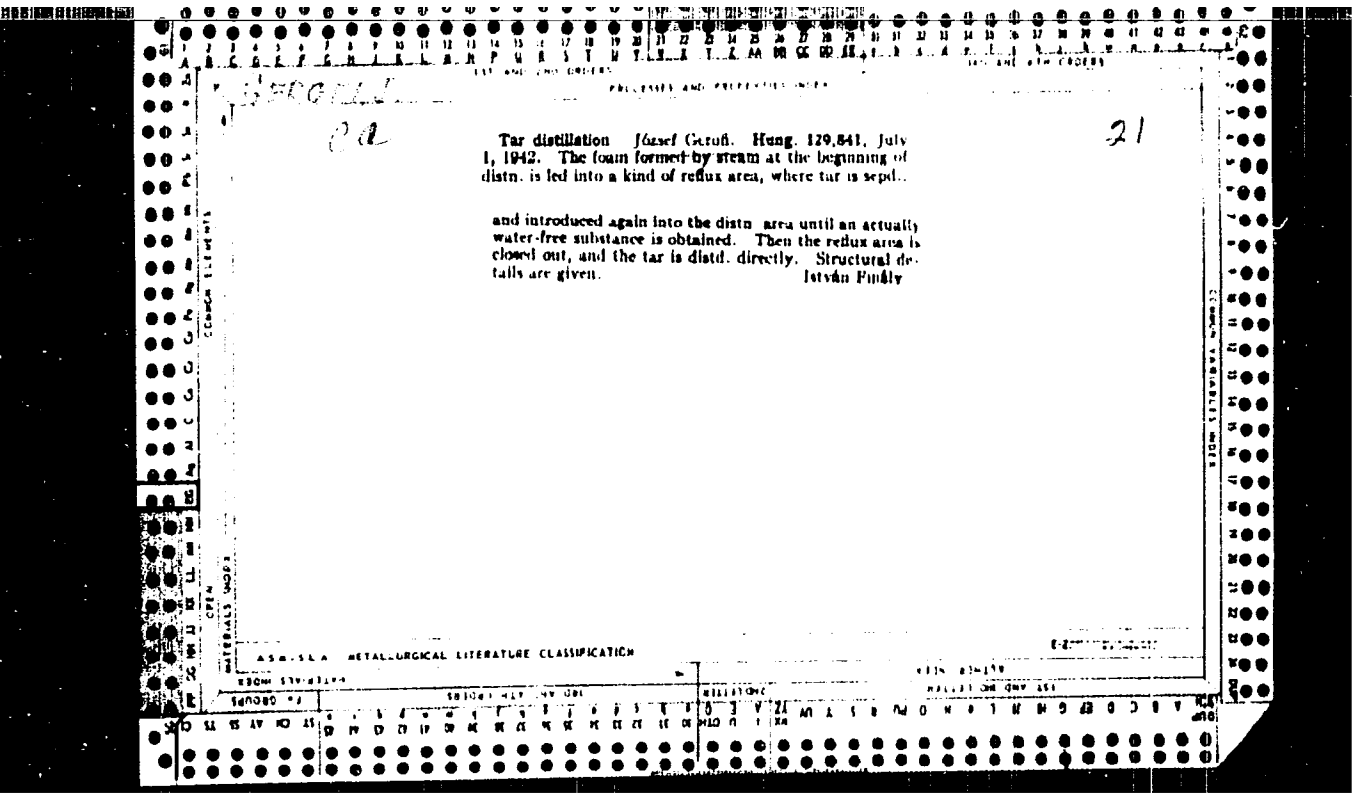
GEROCH, Stanislaw; NOWAK, Wieslaw

Profile of the Lower Cretaceous in Lipnik near Bielsko. Rocz geol Krakow 33 no.1/3:241-264 '63.

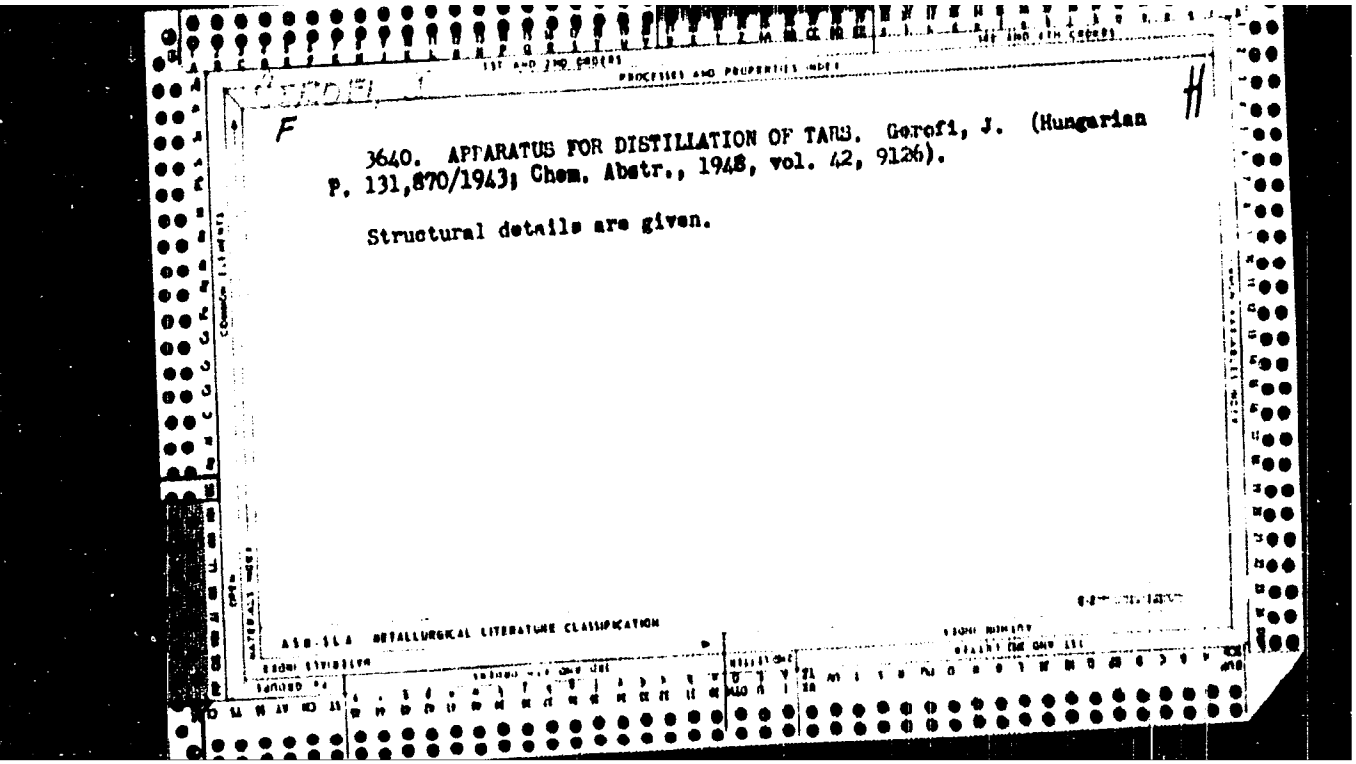
1. Department of Geology, Jagellonian University, Krakow, and Geological Survey, Carpathian Branch, Krakow.

AKSEL'RUD, Ya.; GERODETSKIY, K.

Simplify the procedure for issuing credit to state farms.
Den. i kred. 16 no.8:62-65 Ag '58. (MIRA 11:9)
(Agricultural credit)



Tar distillation József Geroń. Hung. 129,841, July 1, 1942. The foam formed by steam at the beginning of distn. is led into a kind of reflux area, where tar is sepd.. and introduced again into the distn area until an actually water-free substance is obtained. Then the reflux area is closed out, and the tar is distd. directly. Structural details are given. István Finály



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3640. APPARATUS FOR DISTILLATION OF TARS. Gerofi, J. (Hungarian P. 131,870/1943; Chem. Abstr., 1948, vol. 42, 9126).

Structural details are given.

H

HUNGARY

NATSCHEFF, [illegible] Veterinary Academy [illegible] professor, and Institute [illegible] (director: BRATANOFF, K., professor) [original language version not given].

"Data on the Selenium Therapy and [illegible] Heart- and Skeletal Muscle Distrophy of [illegible]."

Budapest, Acta Veterinaria [illegible] Hungaricae, Vol XIII, No 1, 1963, pages 11-13.

Abstract: [German article, authors' German summary] Selenium, in forms of Na selenite or selenium dioxide, in amounts of 1 mg was given to about 2000 lambs suffering from enzootic heart- and skeletal muscle distrophy as well as to about 120,000 healthy lambs. Selenium proved to be a very good therapeutic and prophylactic compound. Within 2-5 days after the administration, 70-90 per cent of the diseased animals recovered. Among the healthy animals no new disease was discovered 2-3 days after the selenium administration. The prophylactic treatment had to be repeated 3-4 weeks later, in a few animals only. The treated lambs were in better condition than the untreated ones. Doses of 30 mg Na selenite and 10 mg selenium dioxide per kg body weight were toxic to the lambs. 1 Eastern European, 12 Western references.

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GEROFY, Karoly, Dr.

Correction of erythrocyte sedimentation. Orv. hetil. 98 no.42: 1148-1150 20 Oct 57.

1. Az Ozdi Varosi Korhaz (igazgato-foovos: Major Kalman dr.) Laboratoriumanak (foorvos: Gerofy Karoly dr.) kozlemenye.
(BLOOD SEDIMENTATION
corrected calculations (Hun))

KIRCHKNOPF, Marton; GEROFI, Karoly; SOTONYI, Gabor

A case of chronic myeloid leukemia complicated by miliary tuberculosis. Orv. hetil. 99 no.19:647-649 11 May 58.

1. Az Ozdi Varosi Tanacs Korhazanak (igazgato: Major Kalman dr.) kozlemenye.

(LEUKEMIA, MYELOCYTIC, compl.
tuberc., miliary, in chronic myeloid leukemia (Hun))
(TUBERCULOSIS, MILIARY, compl.
leukemia, chronic myeloid (Hun))

LUKASH, B.; GEYZLAR, M.; LIBIKH, Ya.; GEROL'D, M.; GOFFMAN, Ya.; MALEK, Ya.

Comparative study of the distribution of combined "antibiolymphin" (streptomycin, neomycin) preparations and tetracycline in the bodies of experimental animals after their parenteral administration. Antibiotiki 7 no.3:75-79 Mr '62. (MIRA 15:3)

1. Kafedra epidemiologii Voyennogo meditsinskogo issledovatel'skogo instituta i Instituta usovershenstvovaniya vrachey imeni I.Ye. Purkine, Gradets Kralove i Issledovatel'skiy institut antibiotikov, Roztoki u Pragi.
(ANTIBIOTICS) (TETRACYCLINE)

MATELOVA, V.; GEROL'D, M. [Herold, M.]

Biosynthesis of penicillin G and V by strain G-163. Antibiotiki 8 no.6:483-487 Je'63 (MIRA 17:3)

Nauchno-issledovatel'skiy institut antibiotikov, Rostoki u Pragi.

GEROL'SKAYA, L.S., kand. tekhn. nauk; SARYCHEVA, N.P., kand. tekhn. nauk; SHOKOREV, A.M., inzh.

Experimental washing and scavenging booth for locomotives. Transp. stroi. 14 no.9:30-32 S '64 (MIRA 18:1)

ONUFRIYEV, Timofey Grigor'yevich, dots.; SHATNEV, Boris Nikolayevich, dots.; IVAN'KO, Timofey Yakovlevich, inzh.; GERCL'SKAYA, Lyudmila Sergeyevna, dots.; SARYCHEVA, Nina Petrovna, dots.; KOSTYAYEV, Sergey Petrovich, inzh.[deceased]; YEGOROV,L.P.,dots., retsenzent; ZAYCHENKO,I.R.,dots.,retsenzent; BYALYNITSKIY,V.A.,inzh.,retsenzent; CHERKASHIN,N.A.,inzh.,retsenzent; EYNER,I.I.,inzh.,retsenzent; PAUL', V.P.,inzh.,red.; NEKLEPAYEVA, Z.A.,inzh.,red.; MEDVEDEVA, M.A., tekhn. red.

[Buildings in railroad transportation] Zdaniia na zheleznodorozhnom transporte. Moskva, Transzheldorizdat, 1962. 408 p. (MIRA 15:6)
(Railroads--Buildings and structures)

GEROL'[illegible] [illegible], kand. tekhn. nauk; SARYCHEVA, N.P., kand. tekhn. nauk

Polystyrene tiles for the walls of inspection pits in depots. Transp. stroi. 15 no.7:23-25 Jl '65. (MIRA 18:7)

GEROL'SKAYA, L.S., kand.tekhn.nauk; SARYCHEVA, N.I., kand.tekhn.nauk; CHERKINSKIY, Yu.S., kand.tekhn.nauk

Depot gate of corrugated fiber glass. Transp. stroi. 16 no.1:27-28 Ja '66. (MIRA 19:1)

GERULT, V.

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SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

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Purification of waste water from paper mills.

p. 174
Vol. 5, no. 5, May 1955
VODNI HOSPODARSTVI
Praha

SO: Monthly List of East European Accessions (E-AL), LC, Vol. 5, no. 3
March 1956

GERON, Emma.

Manifestation of individual peculiarities in man by the speed of his movements. Vop.psikhol. 7 no.2:51-60 Mr-Ap '61. (MIRA 14:6)

1. Institut fizicheskoy kultury, Sofiya.
(Motion study) (Typology (Psychology))

GERON, Ema, dots.

Free will. Nauka i tekh mladezh 14 no.4:12-13 Ap '6[illegible].

AKELEVICH, L.; GERONIMUS, B.

New ideas in designing automobile repair plants. Avt.transp. 35 no.3:23-25 Mr '57. (MLRA 10:5)

1.Giproavtotrans.
(Automobiles--Repairing)

GERONIMUS, B.; KUNCHIY, F.; TOKAREV, G.

Determining the economic efficiency of transferring motortruck fleets from departmental units to the system of public automotive transportation. Avt.transp. 37 no.3:32-34 Mr '59. (MIRA 12:4)
(Transportation, Automotive)

GERONIMUS, Boris L'vovich; STRYZHKOVA, N.I., red.; DONSKAYA, G.D., tekhn.red.

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(Transportation, Automotive)

GERONIMUS, B., KOSAY, K.

Working out a wage system for repair and auxiliary workers in automotive transportation. Biul.nauch. inform.; trud i zar plata 3 no.1:41-48 '60. (MIRA 13:6)
(Transportation, Automotive) (Wages)

GERONIMUS, B.

Using electronic calculating machines for planning automotive transportation. Biul. nauch. inform.: trud i zar. plata 3 no. 10:19-21 '60. (MIRA 13:12)

(Transportation, Automotive--Freight)
(Electronic calculating machines)

GERNOIMUS, R.; SHCHEDRODARCVA, Yu.; BABAYEVA, Z.

Using the mathematical method in planning freight haulage. Avt. transp. 39 no.1:45-47 Ja '61. (MIRA 14:3)

1. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta.
(Transportation, Automotive--Freight)

GERONIMUS, B.

Use of electronic calculating machines in automotive transportation.
Avt.transp. 39 no.6:57-58 Je '61. (MIRA 14:7)
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GERONIMUS, Boris L'vovich; SOROKINA, Kapitolina Mikhaylovna; BARANOV, A.Ya., red.; BODANOVA, A.P., tekhn. red.

[Use of electronic digital computers in planning automobile freight transportation] Primenenie elektronnykh vychislitel'nykh mashin dlia planirovaniia avtomobil'nykh perevozok. Moskva, Avtotransizdat, 1963. 55 p. (MIRA 16:6)
(Electronic digital computers)
(Transportation, Automotive)

GERONIMUS, Boris L'vovich; KUZNETSOVA, L.G., red.

[Using mathematical methods in planning automotive freight transportation] Primenenie matematicheskikh metodov v planirovanii avtomobil'nykh perevozok. [n.p.] Rosvuzizdat, 1963. 82 p. (MIRA 17:7)

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[Mathematical methods of operational planning of motor-truck shipments] Matematicheskie metody operativnogo planirovaniia gruzovykh avtomobil'nykh perevozok. Moskva, Avtotransizdat, 1963. 190 p. (MIRA 16:6)
(Transportation, Automotive--Freight)

GERONIMUS, B.L. (Moskva)

Present state and prospects of using mathematical techniques in planning automotive transportation. Izv. AN SSSR. Energ. i transp. no.5:652-655 S-O '63. (MIRA 16:11)

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[Principles of the economics of automotive transportation; for the aid of those studying the economics of automotive transportation] Osnovy ekonomiki avtomobil'nogo transporta; v pomoshch' izuchaiushchim ekonomiku avtomobil'nogo transporta. Moskva, Avtotransizdat, 1963. 357 p.
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1. Zaveduyushchiy kafedroy ekonomiki i organizatsii proizvodstva Moskovskogo avtomobil'no-dorozhnogo instituta (for Bronshteyn).

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(Moscow Province—Transportation, Automotive—Freight)
(Moscow Province—Electronic data processing)

BELOV, [illegible] BORASYKIN, Vladimir Andreyevich; [illegible], red.

[Routing automotive freight transportation] Marshrutizatsiia avtomobil'nykh perevozok gruzov. Moskva, Transport, 1965. 109 p. (MIRA 18:7)

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"Selection and Maintainance of External Optimum Characteristics for Mercury-Arc Rectifier Train Substations of Mainline Railroads. Official opponents were: Doctor of Technical Sciences M. A. CHernyshev and Engineer L. M. Pertsovskiy.

Dissertation for the Degree of a Candidate of Technical Sciences, ~~1946-1953~~.
At he All-Union Scientific Research Institute for Railroad Traffic Engineers.

May 15, 1951

VAKHNIN, M.I.; POKROVSKIY, M.A.; TALYKOV, A.A.; PENKIN, N.F.; PUTIN, D.K.
VAKHNIN, M.I., professor, doktor tekhnicheskikh nauk, redaktor;
GMRONIMUS, B.Ye., kandidat tekhnicheskikh nauk, redaktor; KHITROV,
P.A., tekhnicheskiy redaktor.

[Signaling, central control and block system for use with d.c.
electric traction] Ustroistva STsB pri electricheskoi tiage pere-
mennogo toka. Moskva, Gos.transp.zhel.-dor.izd-vo, 1956. 219 p.
(Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodo-
rozhnogo transporta. Trudy, no.126). (MLRA 10:1)

(Electric railroads--Signaling)

BENESHEVICH, I.I., kandidat tekhnicheskikh nauk; BOGIN, N.M., kandidat tekhnicheskikh nauk; BYKOV, Ye.I., inzhener; VLASOV, I.I., kandidat tekhnicheskikh nauk; GRITSEVSKIY, M.Ye., inzhener; GRUBER, L.O., inzhener GURVICH, V.G., inzhener; DAVYDOV, V.N., inzhener; YER-SHOV, I.M., kandidat tekhnicheskikh nauk; ZASORIN, S.N., kandidat tekhnicheskikh nauk; IVANOV, I.I., kandidat tekhnicheskikh nauk; KRAUKLIS, A.A., inzhener; KROTOV, L.B., inzhener; LAPIN, V.B., inzhener; LASTOVSKIY, V.P., dotsent; LATUNIN, N.I., inzhener; MARKVARDT, K.G., professor, doktor tekhnicheskikh nauk; MAKHAYLOV, M.I., professor, doktor tekhnicheskikh nauk; NIKANOROV, V.A., inzhener; OSKOLKOV, K.N., inzhener; OKHOSHIN, L.I., inzhener; PARFENOV, K.A., dotsent, kandidat tekhnicheskikh nauk; PERTSOVSKIY, L.M., inzhener; POPOV, I.P., inzhener; PORSHNEV, B.G., inzhener; RATNER, M.P., inzhener; ROSSIYEVSKIY, G.I., dotsent, kandidat tekhnicheskikh nauk; RYKOV, I.I., kandidat tekhnicheskikh nauk; RYSHKOVSKIY, I.Ya., dotsent, kandidat tekhnicheskikh nauk; RYABKOV, A.Ya., professor [deceased]; TAGER, S.A., kandidat tekhnicheskikh nauk; KHAZEN, M.M., professor, doktor tekhnicheskikh nauk; CHERNYSHEV, M.A., doktor tekhnicheskikh nauk; EBIN, L.Ye., professor, doktor tekhnicheskikh nauk; YURENEV, B.N., dotsent; AKSENOV, I.Ya., dotsent, kandidat tekhnicheskikh nauk; ARKHANGEL'SKIY, A.S., inzhener; BARTENEV, P.V., professor, doktor tekhnicheskikh nauk; BERNGARD, K.A., kandidat tekhnicheskikh nauk; BOROVOY, N.Ye., dotsent, kandidat tekhnicheskikh nauk; BOGDANOV, I.A., inzhener; BOGDANOV, N.K., kandidat tekhnicheskikh nauk; VINNICHENKO, N.G., dotsent, kandidat ekonomicheskikh nauk;

(Continued on next card)

BENESHEVICH, I.I.----(continued) Card 2.
VASIL'YEV, V.F.; GONCHAROV, N.G., inzhener; DHRIBAS, A.T., inzhener; DOBROSEL'SKIY, K.M., dotsent, kandidat tekhnicheskikh nauk; DLUGACH, B.A., kandidat tekhnicheskikh nauk; YEFIMOV, G.P., kandidat tekhnicheskikh nauk; ZEMBLINOV, S.V., professor, doktor tekhnicheskikh nauk; ZABELLO, M.L., kandidat tekhnicheskikh nauk; IL'IN, K.P., kandidat tekhnicheskikh nauk; KARETNIKOV, A.D., kandidat tekhnicheskikh nauk; KAPLUN, F.Sh., inzhener; KANSHIN, M.D.; KOCHNEV, P.P., professor, doktor tekhnicheskikh nauk; KOGAN, L.A., kandidat tekhnicheskikh nauk; KUCHURIN, S.F., inzhener; LEVASHOV, A.D., inzhener; MAKSIMOVICH, B.M., dotsent, kandidat tekhnicheskikh nauk; MARTYNOV, M.S., inzhener; MEDEL', O.M., inzhener; NIKITIN, V.D., professor, kandidat tekhnicheskikh nauk; PADNYA, V.A., inzhener; PANTELEYEV, P.I., kandidat tekhnicheskikh nauk; PETROV, A.P., professor, doktor tekhnicheskikh nauk; POVOROZHENKO, V.V., professor, doktor tekhnicheskikh nauk; PISKAREV, I.I., dotsent, kandidat tekhnicheskikh nauk; SERGEYEV, Ye.S., kandidat tekhnicheskikh nauk; SIMONOV, K.S., kandidat tekhnicheskikh nauk; SIMANOVSKIY, M.A., inzhener; SUYAZOV, I.G., inzhener; TALDAYEV, F.Ya., inzhener; TIKHONOV, K.K., kandidat tekhnicheskikh nauk; USHAKOV, N.Ya., inzhenr; USPENSKIY, V.K., inzhener; FEL'DMAN, E.D., kandidat tekhnicheskikh nauk; FERAPONTOV, G.V., inzhener; KHOKHLOV, L.P., inzhenr; CHERNOMORDIK, G.I., professor, doktor tekhnicheskikh nauk; SHAMAYEV, M.F., inzhener; SHAFIRKIN, B.I., inzhener; YAKUSHIN, S.I., inzhener; GRANOVSKIY, P.G., redaktor; TISHCHENKO, A.I., redaktor; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk, redaktor; KLIMOV, V.F., dotsent kandidat tekhnicheskikh

(Continued on next card)

BENESHEVICH, I.I.--- (continued) Card 3.
nauk, redaktor; MARKOV, M.V., inzhener, redaktor; KALININ, V.K., inzhener, redaktor; STEPANOV, V.N., professor, redaktor; SIDOROV, N.I., inzhener, redaktor; GMRONIMUS, B.Ye., kandidat tekhnicheskikh nauk, redaktor; ROBEL', R.I., otvetstvennyy redaktor

[Technical reference manual for railroad engineers] Tekhnicheskii spravochnik zheleznodorozhnika. Moskva, Gos. transp.zhel-dor. izd-vo. Vol.10. [Electric power supply for railroads] Energosnabzhenie zheleznykh dorog. Otv.red. toma K.G.Markvardt. 1956. 1080 p. Vol.13. [Operation of railroads] Ekspluatatsiia zheleznykh dorog. Otv. red. toma R.I.Robel'. 1956. 739 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Petrov)
(Electric railroads) (Railroads---Management)

GERONIMUS, B.Ya., kandidat tekhnicheskikh nauk; DAVYDOV, V.N., inzhener.

Technical and economic comparison of electric traction systems.
Zhel.dor.transp.38 no.12:18-22 D '56. (MLRA 10:2)
(Electric railroads)

TUMANOV, V.A., inzhener, redaktor; GERONIMUS, B.Ye., kandidat tekhnicheskikh nauk, redaktor; KHITROV, P.A., tekhnicheskiy redaktor.

[Electric systems for subways; operation, repair, and adjustment] Elektrosnabzhenie metropolitenov; ekspluatatsiia, remont i naladka. Moskva, Gos. transp.zhel-dor.izd-vo, 1957. 419 p.
(MLRA 10:6)

(Moscow—Subways)

GERONIMUS, B.

DAVIDOVICH, L., kandidat tekhnicheskikh nauk; GERONIMUS, B., inzhener-ekonomist.

Efficient organization of garage units. Avt. transp. 35 no.8: 12-15 Ag '57. (MLRA 10:9)

(Service stations) (Garages)

GERONIMUS, B.Ye., kand.tekhn.nauk

Improving the system of installation distribution at traction substations. Elek. i tepl. tiaga 2 no.8:8-9 Ag '58. (MIRA 11:9)
(Electric railroads--Substations)

GERONIMUS, B.Ye.

Juncture of alternating and direct currents at the Ozherelye railroad yard. Elek. i tepl. tiaga 2 no.11:16-18 N '58.
(MIRA 11:12)

1.Glavnyy spetialist Transelektroproyekta.
(Ozherelye--Electric railroads--Wires and wiring)

GERONIMUS, B.

Job organization in the technical service and repair of automobiles. Sots. trud. no.9:60-63 '58. (MIRA 11:10)
(Automobiles--Repairing)

CHERNOMORDIK, Grigoriy Il'ich; RYVKIN, Yuliy Yefimovich. Prinimali uchastiye: USHAKOV, S.S.; GEROKHIMUS, B.Ye., GORODNICHEV, M.G., red.; BOBROVA, Ye.N., tekhn.red.

[Fundamentals of designing railroads with electric and diesel traction] Osnovy proektirovaniia zheleznykh dorog s elektricheskoi i teplovoznoi tiagoi. Moskva, Gos.transp.izd-vo, 1959. 327 p. (MIRA 12:12)

(Railroad engineering)

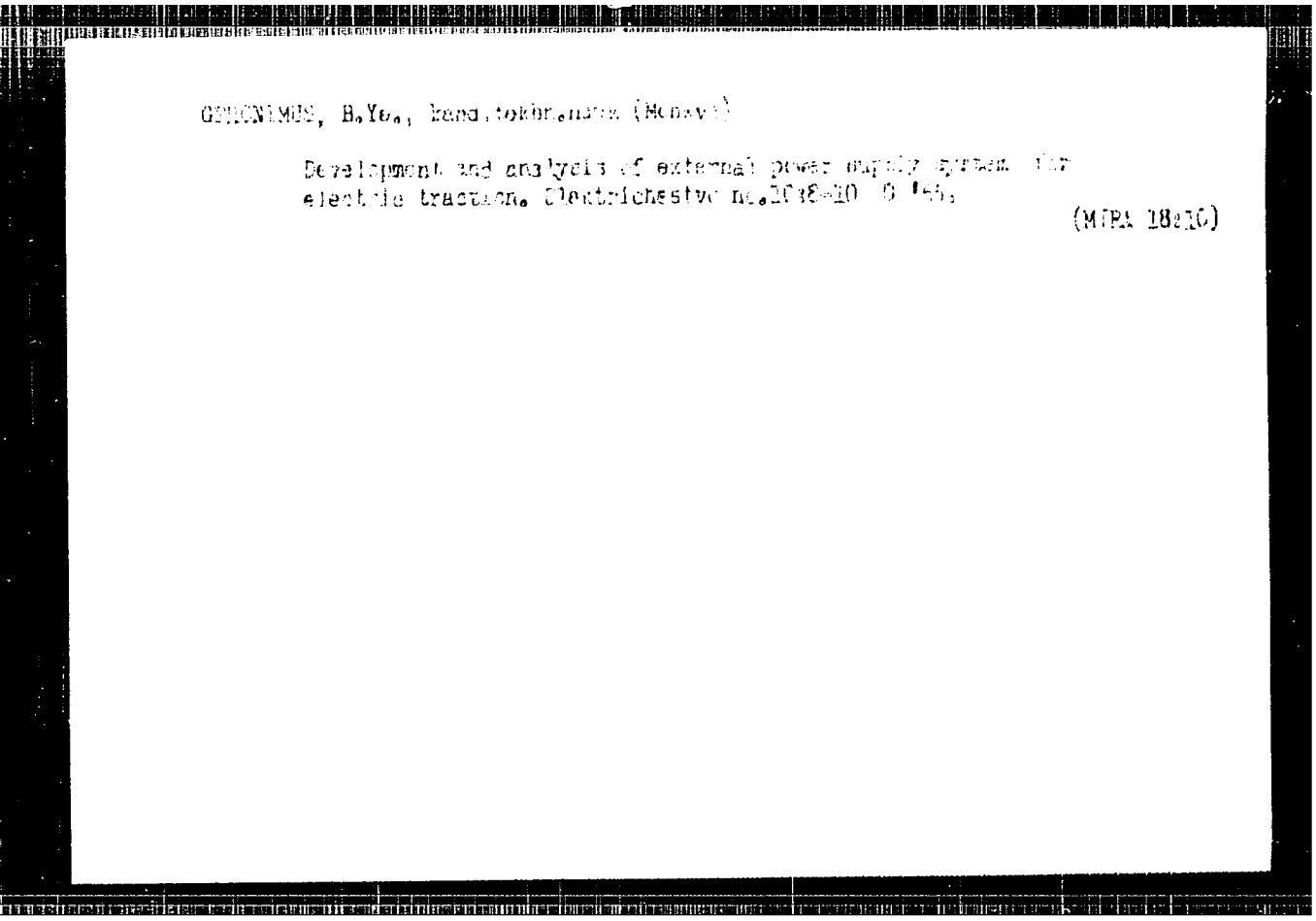
AFANAS'YEVA, Yekaterina Yakovlevna; GERONIMUS, Boris Yefimovich; LAPIN, Vladimir Borisovich; MILOVIDOV, Leonid Grigor'yevich; Prinimal uchastiye BORODULIN, B.M.; SOKOLOV [illegible].D., kand. tekhn. nauk, retsenzent; USENKO, L.A., tekhn. red.

[Systems and operation of a.c. traction substations] Ustroistvo i ekspluatatsiia tiagovykh podstantsii peremennogo toka. [By] E.IA.Afanas'eva i dr. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1962. 237 p. (MIRA 15:4)

(Electric railroads—Substations)

BESKOV, B.A.; GERONIMUS, B.Ye.; DAVYDOV, V.N.; KREST'YANOV, M.Ye.; MARKVARDT, G.G.; MININ, G.A.; Prinimal uchastiye TAMAZOV, A.I.; VAYNBLAT, E.G., inzh., retsenzent; KRUGLYAKOV, F.Ye., inzh., retsenzent; KUCHMA, K.G., kand. tekhn.nauk, retsenzent; LOMAZOV, D.V., kand. tekhn. nauk, retsenzent; SLUTSKIY, Z.M., inzh., retsenzent; FRADKIN, I.S., inzh., retsenzent; YUSHKOV, P.K., inzh., retsenzent; PERTSOVSKIY, L.M., inzh., red.; USENKO, L.A., tekhn. red.

[Design of electric railroad power supply systems] Proektirovanie sistem energosnabzheniia elektricheskikh zheleznykh dorog. [By] B.A.Beskov i dr. Moskva, Transzheldorizdat, 1963. 470 p. (MIRA 17:2)



GONCHARUK, B.Ye., kand.tekhn.nauk (Moskva)

Development and analysis of external power supply system for electric traction. Elektrichestvo no.2:38-40 F '55.

(MLRA 10:3)

GERONIMUS, I.

Interlocked frame made of precast reinforced concrete.
Na stroi. Ros. no.5:21-23 My '61. (MIRA 14:7)

1. Upravlyayushchiy ordena Lenina tresta Stroygaz Altayskogo sovnarkhoza.
(Precast concrete construction)
(Barnaul--Textile factories)

2061 Geronimus, Ts. Ye

Stabilizirovannyy Generator Dlya Obsluzhivaniya Teleizmeritel' Nykh Ustroystv. M., 1954. 11s so Skhem.; 1 L. Skhem. 20 sm. (M-Vo Elektrostantsiy SSSR. Tsentr. Nauch. - Nssled. Elektrotekhn. Laboratoriya Tsniel. Inform. Materialy. No 2). 300 EKZ. " ts - Avt. Ukaboratoriya Tsniel. Inform. Materialy No 2). 300 EKZ. " ts. - AUT Ukaboratoriya Tsniel. Inform Materialy. No 2). 300 EKZ. B. TS. - AUT. Ukazan NA 2-Y S. Obl. - (54.14387 ZH) 621.398.621.396.614

GERONIMUS, TS.Ye., inzh.

Use of telemetering systems in time multiplexing channels in electric power distribution systems. Trudy VNIIE no.7:208-215 '58.
(MIRA 16:12)

GERONIMUS, Vladimir Borisovich, assistent

Problems concerning the dimensional criteria of similarity. Izv. vys. ucheb. zav.; elektromekh. 4 no.11:92-93 '61. (MIRA 14:12)

1. Kafedra stroitel'noy mekhaniki Novosibirskogo instituta inzhenerov zheleznodorozhnogo transporta.
(Models and modeling)
(Electromechanical analogies)

GERONIMUS, V.B., inzh.

Nonlinear similitude and its application to the use of models. (MIRA 16:5)
Trudy NIIZHT no.24:125-151 '61.
(Dimensional analysis) (Engineering models)

GERONIMUS, V.B., inzh.

Historical sketch of the development of the theory of strength similitude and the use of models. Trudy NIIZIT no.24:311-333 '61. (MIRA 16:5)

(Engineering models) (Strains and stresses)

GERONIMUS, Ya. L.

O minimal'nom srednem kvadratichnom otklonenii polinoma ot nulya pri dannom bese. Matem. SB., 35 (1928), 55-63.
The approximation of a function having a pole. J. London Math. Soc., 4(1929), 220-225.
Sur un probleme de Tchebyscheff. Matem. SB., 36 (1929), 102-106.
Sur l'approximation quadratique d'une fonction ayant un pole. Toh. Math. J., 32 (1930), 137-143.
On orthogonal polynomials. Trans. Amer. Math. Sos., 33 (1931), 322-328.
On a class of Appell polynomials. Khrk., Zap. Matem. T-VA, (4), 8(1934), 13-24.
Sur quelques proprietes extremales des polynomes trigonometriques. C. R. Acad. Sci., 198(1934), 221-222.
On a supposition of stieltzes. Khrk., Zap. Matem. T-VA (4), 13(1936), 55-61.
On some extremal properties of polynomials. Ann. of Math., 37(1936), 483-517.
Pro deyaki ortogonal'ni polinomi. Khrk., Zap. Matem. T-VA (4), 14(1937), 123-128.
O nekotorykh svoystvakh polinomov Meikhner'a, Khrk., Zap. Matem. T-VA (4), 15: 2 (1938), 51-56.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.G.
Markushevich, A.I.
Rashevskiy, R.K.
Moscow-Leningrad, 1948

GERONIMUS, Ya. L. - Continued

O kharktere resheniya problemy momentov v sluchaye predel'no-periodicheskoy accotsiirovannoy drobi. IAN, Ser. Matem., 5(1941), 203-210.
O polinomakh, ortogonal'nykh na kruge, o trigonometricheskoy probleme momentov i ob assotsiirovannykh s neyu funktsiyakh tipa Caratheodory i Schur'a. DAN, 39(1943), 319-324.
O polinomakh, ortogonal'nykh na kruge, o trigonometricheskoy probleme momentov i ob assotsiirovannykh s neyu funktsiyakh tipa Caratheodory i Schur'a. Matem. SB., 15(57), (1944), 99-130.
O nekotorykh funktsiyakh raspredeleniya, svyazannykh s sistemoy polinomov. DAN, 44(1944), 383-387.
O polozhitel'nykh trigonometricheskikh polinomakh i garmonicheskikh. Funktsiyakh. DAN, 51(1946), 569-572.
On the trigonometric moment problem. Ann. of Math., 47(1946), 742-791.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.G.
Markushevich, A.I.
Rashevskiy, R.K.
Moscow-Leningrad, 1948

AMR

Mechanics (Dynamics, Statics, Kinematics)

9-2. Geronimus, Ya. L., On some problems in the synthesis of cam mechanisms, 5, 19, 62-81, 1948.

Author continues his study of runs with a minimum peak acceleration. The distance h, the time T, the maximum speed V_0 are given; the velocity V and acceleration W are continuous and vanish at the beginning and at the end of the run; and the (W, t) curve is symmetric about the point (0, ½T). A solution of the form $a_1 \sin \phi + a_2 \sin 2\phi + a_3 \sin 3\phi$, $\phi = 2\pi t/T$ is determined to yield minimum over-all acceleration peak, assuming $W(t) \geq 0$ for $t \leq \frac{1}{2}T$. Familiar methods are used, and considerable labor expended. Next, the symmetry condition is replaced by prescribing the value of the area under the distance-time curve, and a minimum peak of deceleration demanded. Expressions of the type $a_1 \sin \phi + a_2 \sin 2\phi$, ϕ linear in t, are used for the acceleration and deceleration periods. As in the first problem the analysis of some inequalities makes the procedure very laborious.

A. W. Wundheiler

The above article appeared in Russian, in Trudi Sem. Teor. Mash. Mekh.

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88752
S/040/60/024/006/006/024
C 111/ C 333

AUTHOR: Geronimus, Ya. L. (Khar'kov)

TITLE: On Some Properties of Motions Resulting Under Influence of Gyroscopic Forces

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol. 24, No.6, pp. 1018-1023

TEXT: The author considers the motion of a point under influence of a force

(1.1) $$\vec{F} = \vec{v} \times \vec{\phi}$$

where $\vec{\phi}$ depends only on the point coordinates and $\vec{v}$ is the velocity of the point.

If

(1.4) $$\frac{d}{dt}(m\vec{v}) = \vec{v} \times \vec{\phi}$$

is the equation of motion, where $m = m(t,v)$, then it holds

(1.6) $q = mv = \text{const.}$

If, moreover, there acts a force $\vec{F}_0 = -\text{grad } V_0$ upon the point, then with the denotation

Card 1/3

On Some Properties of Motions Resulting Under Influence of Gyroscopic Forces

(1.8) $$\int mvdv = \lambda$$

one obtains the relation

(1.9) $$2T + V_o - \lambda = h \qquad (T = \frac{1}{2} mv^2)$$.

If an arbitrary given force $\vec{F}_o$ and the force (1.1), where $\vec{\phi}$ is a constant vector and m = const, are acting on the point, then the motion runs so as the motion of the same point with respect to a coordinate system which rotates around $\vec{\phi}$ with the angular velocity $\vec{\omega} = 1/(2m)\ \vec{\phi}$, where instead of the gyroscopic force (1.1) there acts on the point a force of attraction to the axis of rotation which is equal to $- m r \omega^2$.

Then the author shows: If a potential force $\vec{F}_o$ and a gyroscopic force $\vec{F}$ act on a point, then the path of the point is distinguished among all curves through two given points by the fact that for this path the integral

(4.1) $$S = \int_{t_1}^{t_2} L dt \qquad (L = \lambda + \vec{A} \cdot \vec{v} - V_o)$$

Card 2/3

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C 111/ C 333

On Some Properties of Motions Resulting Under Influence of Gyroscopic Forces

where L is the Lagrange function and $\vec{A}$ is defined by $\vec{\phi} = \text{rot } \vec{A}$, attains a stationary value. t_1 and t_2 are the initial and final values of time, in which the movable point is in the afore-mentioned given points. The obtained elementary relations are used e. g. for the motion of the electron in a magnetic field under influence of a Lorentz-force.

A. S. Kompaneyets and Ya. J. Frenkel' are mentioned.

There is 1 figure and 2 Soviet references.

SUBMITTED: June 23, 1960

Card 3/3

GERONIMUS, Ya.L. (Khar'kov)

Relation between the order of growth of orthonormal polynomials and the nature of the zero function. Mat. sbor. 61 no.1:65-79 My '63. (MIRA 16:5)

(Polynomials)

[illegible]

[illegible]T-1505 ([illegible]olynomials orthogonal on [illegible] [illegible]) [illegible], ortogonal'n[illegible]e na kruge, [illegible] ikh prilo[illegible]enii[illegible].
SO: Zapiski [illegible]auchno-Issledovatel'skogo Instituta Matematiki i Mekhaniki Khar'kovskogo Matematicheskogo Obshchestva, 19(4): 35-120, 1948

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[illegible]
[illegible]IS, Ya. I.

19488

O styagyni [illegible] tochnosti [illegible] turnykh [illegible]. Doklady [illegible]. Nauk SSSR. Novaya Seriya, T LXVIII, No 3, 1949, S. 437-4[illegible] Bibliogr: 11 Naz

So: Letopis' No. 40

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514910015-5"

GERONIMUS, Y. L.

"An Approximate Method for the Analytical Determination of Counterweights for Optimum Vertical Balance," Trudy Seminara po Teoriy Mashin, Vol 11, No. 51, 1951, page 61.

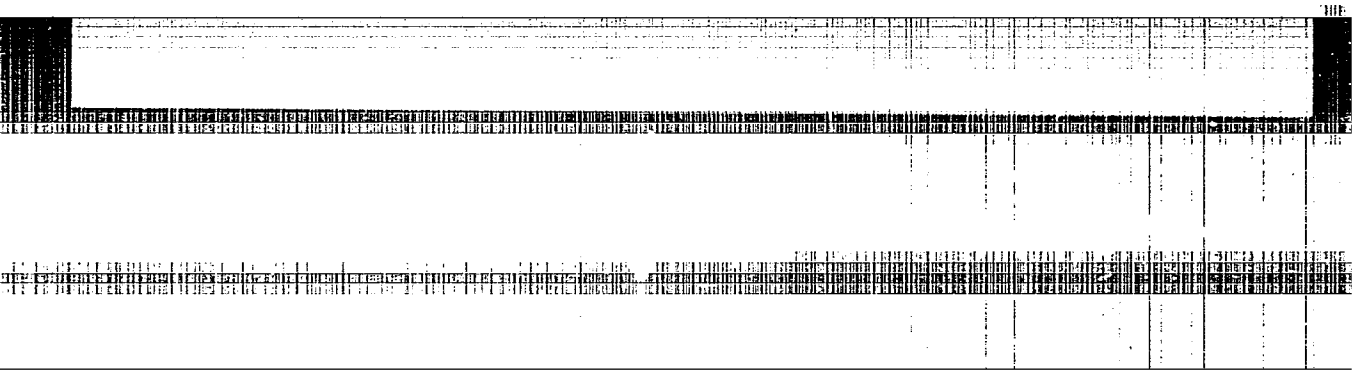
XXII - 2

GERONIMUS, Ya. L.

Mathematical Reviews
Vol. 15 No. 4
Apr. 1954
History

*Geronimus, Ya. L. Ocerki o rabotah korifeev russkoĭ mehaniki. [Essays on the work of the leaders of Russian mechanics.] Gosudarstv. Izdat. Tehn.-Teor. Lit., Moscow, 1952. 519 pp. (13 plates). 22.75 rubles.

The following Russian scientists are discussed in the collection of essays: M. V. Ostrogradskiĭ (1801–1862); O. I. Somov (1815–1876); P. L. Čebyšev (1821–1894); I. A. Vyšnegradskiĭ (1831–1895); V. G. Imšeneckiĭ (1832–1892); S. V. Kovalevskaya (1850–1891); N. E. Žukovskiĭ (1847–1921); S. A. Čaplygin (1869–1942); A. M. Lyapunov (1857–1918); V. A. Steklov (1864–1926); I. V. Meščerskiĭ (1859–1935); and A. N. Krylov (1863–1945). The individual essays are planned as follows: a short biography of the person treated; an exposition of his most important work; a discussion of the general characteristics of his scientific work and its later development by and its effect on other Russian scientists.



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GERONIMUS, Ya. L.

USSR/Mathematics - Orthogonal Polynomials Sep/Oct 52

"Orthogonal Polynomials of V. A. Steklov," Ya. L. Geronimus

"Iz Ak Nauk SSSR, Ser Matemat" Vol 16, No 5, pp 469-480

Discusses the soln of the problem posed by V. A. Stekov in 1926. Finds the sufficient condition which must be satisfied by all systems of orthogonal and normal polynomials in order that this

226T71

entire system be uniformly bounded on the entire interval of Orthogonality. Cites Shohat, "On Development of Continuous Functions in Series of Tchebycheff Polynomials," Trans Amer Soc 27, 1925; G. Szegö, "Orthogonal Polynomials," New York, 1939. Submitted by Acad V. I. Smirnov 18 Mar 52.

226T71

GRUSHIN, US, Ya. L.

220TT1

USSR/Mathematics - Extremal Problem, Approximations Jul/Aug 52

"Certain Extremal Problems in the Space $L_\sigma(p)$," Ya.L. Geronimus, Khar'kov

"Matemat Sbor" Vol XXXI (73), No 1, pp 3-26

The aim of the current article is to show that a number of extremal problems can be reduced to the problem of finding the norm of a suitably selected functional. $L_\sigma(p)$ designates the space of complex-value functions $f(z)$ defined on a curve with finite norm $//f//_p$, and $\sigma(s)$ is a bounded monotonic function of the length of arc s. Considers the

220TT1

Functional $A(f) = (2\pi i)^{-1} \int_C f(z)dz/z$ (f is in L), where C designates a contour (i.e., rectifiable Jordan curve) of length 1 . Cites Szego," ("Orthogonal Polynomials," New York, 1939) and Verblunsky ("Positive Harmonic Functions. II," Proc London Math Soc, 40, 1935). Submitted 6 Dec 51.

GERONIMUS, Ya. L.

Mathematical Review
June 1954
Mechanics

Geronimus, Ya. L. On the mass of a body reduced to the line of impact. Akad. Nauk SSSR. Prikl. Mat. Meh. 17, 631–633 (1953). (Russian)

The author proves first that the angular velocity imparted to a resting rigid body by a single-force blow along a line AB, and of a torque M_c about the mass center C, has the component M_c/Mp^2 normal to ABC (M = mass of body; p = radius of the central ellipsoid of gyration normal to ABC). [A complete determination of this velocity is given in Routh's Elementary rigid dynamics, 7th ed., Macmillan, London, 1905, Ex. 4, art. 310.] Since M, p are only two numbers, it is clear that the particle-velocity projections onto ABC can be duplicated if the body is reduced to two rigidly-connected particles. If one of them, P, is at B, ABC being a right angle, this reduction is clearly unique. The velocity acquired by P will be clearly the same as if it had been free. Its mass, by Joukowsky's definition, is the "body mass reduced to the line of blow". [There is considerable lost motion in this short paper.] *A. W. Wundheiler.*

10-4-54

GERONIMUS, Ya. L.

USSR/Mathematics - Approximation of Polynomials 11 Jan 53

"Some Evaluations for Polynomials," Ya.L. Geronimus

DAN SSSR, Vol 88, No 2, pp 193-196

Derives asymptotic approx formulas for certain classes of analytical functions. Applies them to Jacobi's polynomials. Presented by Acad S. N. Bernshteyn 3 Nov 52.

249T7

GERONIMUS, Ya. L.

1 Feb 53

USSR/Mathematics - Approximations

"Mean and Uniform Approximations," Ya.L. Geronimus

DAN SSSR, Vol 88, No 4, pp 597-599

Analyzes a complex periodic function and its mean approximation by a certain system of polynomials. Applies methods by W. E. Sewell (Degree of approximation by polynomials in the complex domain, 1942) and C. de la Valle Poussin (Lecons sur l'approximation des fonctions d'une variable reelle, 1919). Presented by Acad S. N. Bernshteyn 3 Nov 52.

249T40

GERONIMUS, Ya. L.

USSR/Mathematics - Potential Theory 21 Aug 53

"Tangent Derivative of the Logarithmic Potential of a Simple Layer," Ya. L. Geronimus

DAN SSSR, Vol 91, No 6, pp 1257-1260

Considers the function $V(\sigma) = \int_0^l f(\lg r^{-1})dm(s)$ $(0 = \sigma - l)$; here r is the distance between 2 points of a smooth rectifiable curve L, of length λ, characterized by the arc coordinates s and σ, M(s) is the function characterizing the distribution of mass on curve L, f(y) tends monotonically to $+\infty$

275T76

with y. Demonstrates that $\frac{d}{d\sigma}\int_0^l f(\lg r^{-1})dm(s)$ equals $\int_0^l \frac{d}{d\sigma} f(\lg r^{-1})dm(s)$. Presented by Acad N. I. Muskhelishvili 22 Jun 53.

GERONIMUS, Ya. L.

"Concerning Some Characteristics of Motion Under the Action of a Central Force," by Ya. L. Geronimus, Tr. Khar'kovsk. Aviats. In-ta, No 15, 1954, pp 17-20 (from Referativnyy Zhurnal -- Mekhanika, No 10, Oct 56, Abstract No 6382, by V. V. Dobronravov)

"A number of the characteristics of the plane motion of a physical point under the action of a central force is recorded. The transformation shifting the trajectory of a point into a hodograph of its velocity is determined; this result is generalized for the case of any plane curve and any given surface. A formula expressing the central force through the radius vector and radius curve of the trajectory is derived, and the method of the graphic construction of the trajectory with a given force is discussed."

Sum 1219

GERONIMUS, Ya. L.

USSR/Mathematics

Card : 1/1

Authors : Geronimus, Ya. L.

Title : About certain asymptotic relations in the theory of orthogonal polynomials

Periodical : Dokl. AN SSSR, 96, Ed. 6, 1097 - 1100, June 1954

Abstract : Calculations are presented showing the existence of certain asymptotic relations in the theory of orthogonal polynomials. A theorem is given which establishes a certain relation between the limitedness of the infinite series of polynomials and the characteristics of the function. Three references.

Institution : ...

Presented by : Academician S. N. Bernshtein, April 6, 1954

GERONIMUS, Ya. L.

USSR/ Mathematics - Integral equations

Card 1/2 : Pub. 22 - 1/44

Authors : Geronimus, Ya. L.

Title : About some integral equations

Periodical : Dok. AN SSSR 98/1, 5-7, Sep 1, 1954

Abstract : A series of theorems intending to specify conditions under which the function $q(\sigma)$ of the equation given below can justify differentiation of the left side of the latter, i.e.,

$$\frac{1}{2\pi}\int_{\sigma} p(s)\lg\frac{1}{r}\,ds = q(\sigma),$$

Institution : Kharkov Aviation Institute

Presented by : Academician N. I. Muskhelishvili, June 7, 1954

Periodical : Dok. AN SSSR 98/1, 5-7, Sep 1, 1954

Card 2/2 : Pub. 22 - 1/44

Abstract : where p(s) is a density of the logarithmic potential of a simple layer distributed on the curve C of the length l according to a given value of the potential q(σ) on the C; σ is the arc coordinates of the points $\xi, \xi \in C, r = |\xi - \zeta|$. The equation can be used for solution of a contact problem of elasticity. Ten references (1941-1953).

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Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 5, p. 6, # 5521

AUTHOR: Geronimus, Ya.L.

TITLE: Some Applications of the Riemannian Geometry to Studying Dynamic Systems

PERIODICAL: Tr. Khar'kovsk. aviats. in-ta, 1955, No. 16, pp. 135-140

TEXT: The motion of a holonomic conservative dynamic system is considered as the motion of a point of unit mass in the Riemannian space R_n with the line element

$$ds^2 = a_{ik}dq^i dq^k;$$

it is assumed that the system has stationary connectivities and its kinetic energy is expressed by $T = \frac{1}{2}g_{ik}\dot{q}^i\dot{q}^k$. The theorems generalizing the Euler- and Bonnet theorems are proved: 1) the forced motion, which minimized the integral

$$\int \varphi (H + h)\, ds$$

(where U is the power function, φ is a certain prescribed function), has the

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following properties: a) the direction of the principal normal at every point of the extremum curve does not depend on the function φ, b) the trajectory curvature radii of the forced and the free motions are interconnected by the ratio

$$\frac{\rho_0}{\rho} = \frac{2(U+h)\varphi'(U+h)}{\varphi(U+h)};$$

c) the additional force N is connected with the component of the force along the principal normal by the correlation

$$N = \frac{\rho_0 - \rho}{\rho} \Phi .$$

2) let the point move in the R_n space along the curve A, minimizing the integral

$$\int (U+h)^k ds$$

and let hereat the power function be equal to U_1 at the beginning and the initial velocity be equal to v_{01}, but further respectively equal to U_2 and v_{02}, etc.; When compelling the point to move along the same curve A under the effect of forces being derivatives of the power function $U = a_1 U_1$, a_1 = const, the reaction

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force is directed along the principal normal and is equal to

$$\tilde{N} = a_i N_j + C/\rho \quad (C = \text{const}).$$

It is proved that the apex of the symmetrical gyroscope moves under the action of forces, giving no moment around the gyroscope axis, in the same manner as a material point of the mass A would move over the surface of the smooth unit sphere under the effect of generalized forces applied to the gyroscope and an additional gyroscopic force $C\eta \times V$, where $C = J_z$ and η is the vector of the gyroscope angular velocity around its axis.

N.M. Pisareva

Translator's note: This is the full translation of the original Russian abstract.

Card 3/3

GERONIMUS Ya. L.

SUBJECT USSR/MATHEMATICS/Fun... ...lysis CARD 1/1 PG - 636
AUTHOR GERONIMUS Ya.L.
TITLE On a simple method for the construction of biorthogonal systems.
PERIODICAL Ukrain mat.Zurn. 7, 267-272 (1955)
reviewed 3/1957

Let a linear functional L be defined on the complex functions. Let $P_n(z)$ be a system being orthogonal with respect to L, i.e. $L(P_l(z)\overline{P_k(z)}) = \delta_{lk}$ $l,k=0,1,2\ldots$. Starting from the $P_n(z)$ the author constructs a biorthogonal system $u_k(z)$, $v_l(z)$ with

$$(1) \qquad L(v_l\overline{u_k}) = \delta_{lk} \quad , \qquad k,l = 0,1,2,\ldots .$$

For this, $v_k(z)$ shall be defined formally by $\sum_{n=k}^{\infty} a_{kn}P_n(z)$. Therefrom one obtains formally a reversion of the form $P_n(z) \sim \sum_{s=n}^{\infty} b_{ns}v_s(z)$ and puts $u_r(z) = \sum_{m=0}^{r} b_{mr}P_m(z)$. It can be seen easily that then (1) is satisfied formally. Starting from the system $P_k(z) = z^k$ which is orthogonal along the

unit circle (with weight $1/2\pi$), by means of the reversion formula of Möbius one obtains $v_0 = u_0 = 1$,

$$v_k(z) = \frac{1}{2\sqrt{\xi}} \log \frac{1+\sqrt{\xi}z^k}{1-\sqrt{\xi}z^k} \quad \text{and} \quad u_i(z) = \sum_{(2m-1)\mid i} \frac{\xi^m \mu(2m+1)}{2m+1} \cdot z^{\frac{i}{2m-1}},$$

where $\mu(n)$ denotes the Möbius function as usual and $\xi = \pm 1$. Finally the case is considered that additional assumptions for L and the $P_k(z)$ are satisfied: with $\alpha \neq 0$ be $L(P_k P_l) = \delta_{ko}\delta_{ro}\cdot\alpha$ and for a real-valued function $P(z)$ let $L(P(z))$ be real. For the exceptional case $P_k(z) = z^k$ and L = integration along the unit circle thus one obtains a biorthogonal system of P.L.Čebyšev and one of A.Markov.

GERONIMUS, Ya.L.

Properties of certain orthogonal series. Dokl. AN SSSR 103 no.3: 353-356 Jl'55. (MLRA 8:11)

1. Khar'kovskiy aviatsionnyy institut. Predstavleno akademikom V.I.Smirnovym

(Series, Orthogonal)

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress, Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.

Geronimus , Ya. L. (Khar'kov). On Some Sufficient Convergence Conditions of the Fourier-Chebyshev Process. 78-79

ALEKSANDROV, L.I.; ARTEMENKO, N.P.; KOSTYUK, D.I.; GERONIMUS, Ya.L., professor, otvetstvennyy redaktor; CHERNYSHENKO, Ya.T., tekhnicheskiy redaktor

[Cylindrical gearing; theory, calculation and design] TSilindricheskie zubchatye kolesa; teoriia, raschet i proektirovanie. Khar'kov, Izd-vo Khar'kovskogo ordena trudovogo krasnogo znameni gos. univ. im. A.M.Gor'kogo. 1956. 317 p. (MIRA 9:9)
(Gearing)

SUBJECT USSR/MATHEMATICS/Theory of functions CARD 1/3 PG - 580
AUTHOR GERONIMUS Ja.L.
TITLE On differential properties of some functions which can be represented by singular integrals.
PERIODICAL Izvestija Akad.Nauk 20, 775-782 (1956)
reviewed 2/1957

Let L be a rectifiable contour with the length l. Let $\mu(s)$ denote a function of the arc coordinate s. On $[0,l]$ let $\mu(s)$ be of bounded variation. Let the function K(s) be odd and have a singularity at s = 0 only and let

$\int_0^\infty K(x)dx = \infty$. Let further

$$v(\sigma) = \int_0^l K(s-\sigma)\,d\mu(s), \qquad 0 < \sigma < l ,$$

$$V(\sigma,\varepsilon) = \int_0^{\sigma-\varepsilon} K(s-\sigma)\,d\mu(s) + \int_{\sigma+\varepsilon}^{l} K(s-\sigma)\,d\mu(s) \qquad 0 < \sigma-\varepsilon < \sigma+\varepsilon < l,$$

such that (if the limit value exists) the relation

$$v(\sigma) = \lim_{\varepsilon \to 0} v(\sigma, \varepsilon)$$

is valid. With these notations the following theorems are proved:
1. Let $0 < s_1 - h < s_2 + h < 1$, $h > 0$. Let the function $\mu(s)$ have a continuous derivative of k-th order on $[s_1 - h, s_2 + h]$, the modul of continuity $\omega_k(\delta)$ of which satisfies the condition

$$\int_0^a \omega_k(x) |K(x)| \, dx < \infty .$$

If $K(s)$ possesses a continuous k-th derivative on $[\lambda, 1]$, $\lambda > 0$, then $v(\sigma)$ has a bounded derivative of (k-1)-th order on $[s_1, s_2]$.

2. Special case $K(s) = \frac{1}{s}$.

3. Special case $K(s) = -\frac{1}{2\pi} \operatorname{ctg} \frac{s}{2}$, L is the unit circle $|z| = 1$.

4. Let a 2π-periodic function $u(\theta)$ have a k-th derivative on $[\alpha - h, \beta + h]$ which belongs to the class of Dini-Lipschitz D_α, $\alpha > 1$. Let exist the integral $\int_0^{2\pi} |u(\theta)| \log^+ |u(\theta)| \, d\theta < \infty$. Then the conjugate function $v(\varphi)$ is a