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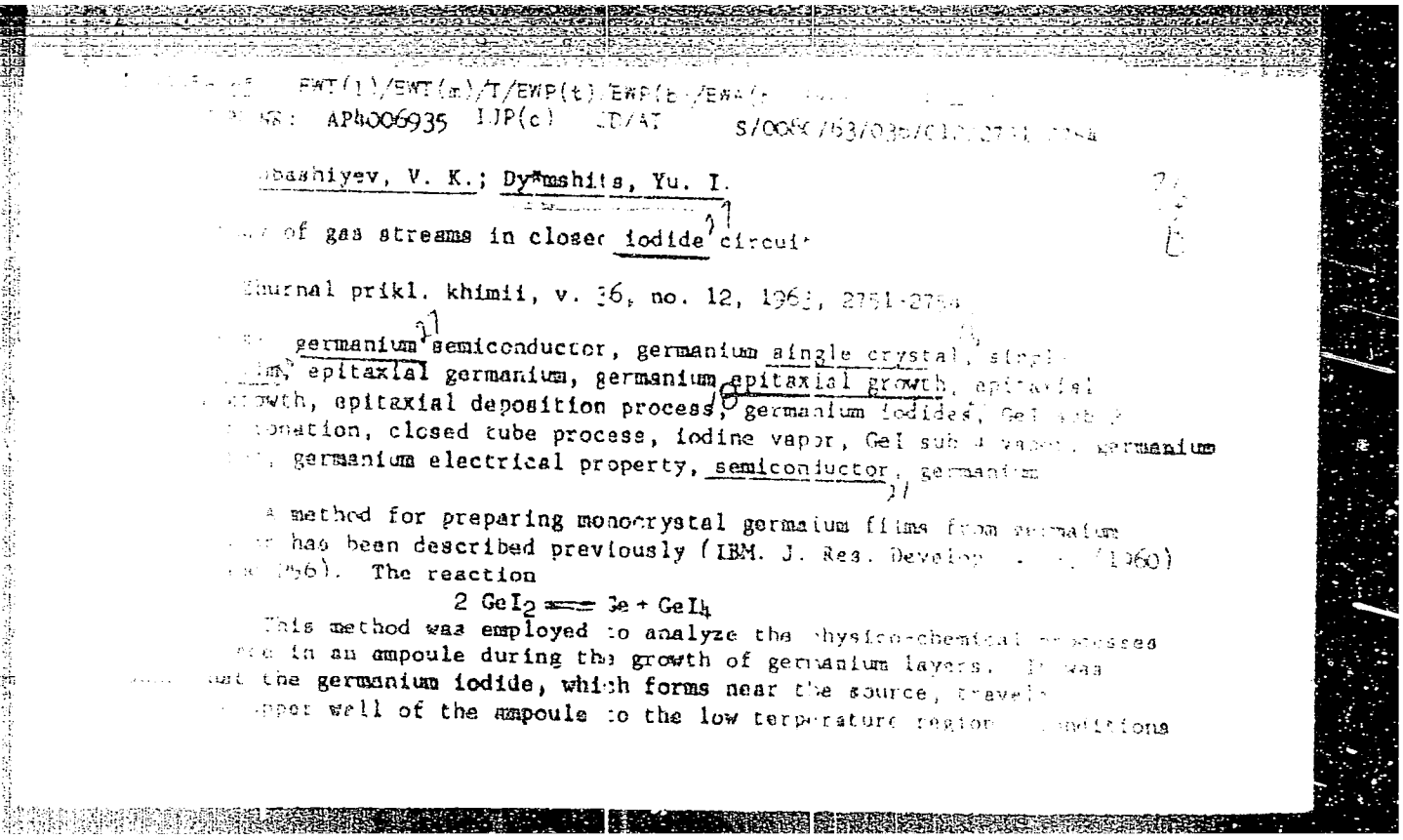
1-16-59

MAMET, Ovsey Piikhusovich; DYMSHITS, Ye.S., inzh., red.; SERGEYEV, V.M., inzh., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Brief manual for machinery designers] Kratkii spravochnik konstruktora-stankostroitelia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1961. 358 p. (MIRA 14:12)
(Mechanical engineering) (Machinery—Design)

ZAMALIN, Yu.S.; DYMSHITS, Ye.S., inzh., retsenzent; KUNIN, P.A., inzh., red.

[Drilling holes in parts of machinery housings] Rastachivanie korpusnykh detalei. Moskva, Izd-vo "Mashinostroenie," 1964. 109 p. (MIRA 17:6)



EWT(l)/EWT(m)/T/EWP(t) EWP(b)/EWA(
AP6006935 IJP(c) JD/AT S/0054/63/03[illegible]

[illegible]bashiyev, V. K.; Dy*mshits, Yu. I.

[illegible] of gas streams in closed iodide circuit

Zhurnal prikl. khimii, v. 36, no. 12, 1963, 2751-2754

[illegible] germanium semiconductor, germanium single crystal, single [illegible], epitaxial germanium, germanium epitaxial growth, epitaxial [illegible] growth, epitaxial deposition process, germanium iodides, GeI sub 2 [illegible] formation, closed tube process, iodine vapor, GeI sub 4 vapor, germanium [illegible], germanium electrical property, semiconductor, germanium

A method for preparing monocrystal germaium films from germanium [illegible] has been described previously (IBM. J. Res. Develop. [illegible] (1960) [illegible] 56). The reaction

$$2\,GeI_2 \rightleftharpoons Ge + GeI_4$$

This method was employed to analyze the physico-chemical processes [illegible] in an ampoule during the growth of germanium layers. It was [illegible] that the germanium iodide, which forms near the source, travels [illegible] upper well of the ampoule to the low temperature region [illegible] conditions

L 39958-65
ACCESSION NR: AP4006935

...ated in the temperature fall zone which favor the disproportionation
The greater part of the germanium diiodide decomposes ...
...e top of the ampoule becomes coated with the deposit ...
... diffused to the bottom of the ampoule also decomposes with liberation of germanium. The remaining part of the germanium iodide and ...odide continue to move toward the "cool rung". A further disproportion...
...f the germanium diiodide takes place in proportion to ... travel.
...tine and epitaxial germanium deposits were obtained ...
... experiments with the epitaxy of the deposits coinciding with that ... and with the same conductivity sign. By using the ... sign ...vity, it was possible to obtain the p-n junction layer ... ate. ...ation of the current carriers has a value within the ... 10^{17} cm^{-3}. Orig. art. has: 4 figures.

... None

29Dec61

... ENCL ...

... SUB CODE ... NO REF SOV: 000 ... OTHER ...

DYMSHITS, Z. A.

Base and central testing laboratories in enterprises. Izm. tekh. no.10:60-61 O '62. (MIRA 15:10)

(Testing laboratories)

DYMSHITS, Z.A.

State standardization is the foundation of high quality and reliability of industrial production. Standartizatsiia 29 no.3:52-53 Mr '65. (MIRA 18:5)

1. Nachal'nik Kemerovskoy gosudarstvennoy kontrol'noy laboratorii.

DYMSKIY, V. N.

V. N. DYMSKIY, "Surface wave on a piece-wise-inhomogeneous impedance plane." Scientific Session Devoted to "Radio Day", May, 1958, Trudrezervizdat, Moscow, 9 Sep. 58

A surface TM -wave on a plane with reactive impedance boundary conditions is analyzed. The value of the surface impedance of the directing plane goes through a jump on the rectilinear boundary perpendicular to the direction of wave propagation while remaining constant on both sides of the interface.

The problem is solved by a passage to the limit from the screened system (an impedance plane and perfectly conducting screen parallel thereto) to an open system of surface waves.

The possibility is shown of an exact expression for the field distribution in the plane spearating the regions by a certain relation of elementary functions.

The exact relations in the general case are unsuitable to practical computations because of their awkwardness.

Approximate relations which define the reflection coefficient, the transmission coefficient, the relative magnitude of the emitted power, the directivity, are given in a particular case (a small relative change in the impedance). A circuit is presented which is equivalent to the inhomogeneity under consideration.

The surface wave properties analyzed and the computational material can be useful to design antenna systems using surface waves.

L 60164-65 EEC-4/EWT(1)/FCS(k)/T Pl-4/Pj-4/Pl-4/Pac-4 WE

AP5014512 0401/0404

...skiy, V. N.

...bution to the theory of antenna syntheses

Radiofizika, v. 8, no. 2, 1965, 4...

...ntenna synthesis, antenna design, ...

...reating the vector complex directivity ... ...y radi-
... of electric currents by means of a ... ...
... ...ay directivity pattern represented ... ...
...tributed in a specified finite region ... ...
...n be synthesized by means of a current ... ...
... of an integral of transverse plane wa... ...
...ving the problem of synthesizing an antenna ... ...uration,
...imum norm of the currents is ensured. ... ...used
... qualitative approximate solutions of the ... ...ator con-
... the geometrical configuration of the volume ... ...pecti-
...and. The convergence of the synthesis proced... ...by means
...ensional example. It is stated that the great... ...ve sim-

AP5014512

plicity, and clarity of the method proposed for solving the approximate solutions may justify its use the design of low-reactance antenna element. Orig. art. has: [illegible] and 11 formulas.

Kazanskiy aviatsionnyy institut (Kazan' Aviat[illegible]

)Jun64 ENCL: 00

002 OTHER: 001

Card 2/2

L 28518-66 EWT(1)/T WR

ACC NR: AT6005738 SOURCE CODE: UR/2529/64/000/082/0003/0026

AUTHOR: Dymskiy, V. N.

39

B+1

ORG: none

TITLE: Synthesizing antennas with volume-distributed sources

SOURCE: Kazan. Aviatsionnyy institut. Trudy, no. 82, 1964. Radiotekhnika i elektronika (Radio engineering and electronics), 3-26

TOPIC TAGS: antenna, antenna directional pattern, antenna synthesis

ABSTRACT: The problem is considered of calculating volume continuous distribution of currents in an antenna when the volume is delimited and the directional pattern specified. A general equation for the directional pattern is: $\vec{F}(\vec{r}_0) = \int_V T_r \vec{a}(\vec{\rho}) e^{jk\vec{r}_0\vec{\rho}}\, dv$. Here, $\vec{r}_0 = \vec{r}_0(\theta, \varphi)$ is the radial basis vector in a spherical

Card 1/2

coordinate system; ρ is the radius vector of the volume in question; T_t is the tensor that projects the vector onto a plane tangential to the sphere. The directional pattern is a complex elliptically polarized vector tangential to the sphere. The current distribution exactly realizing the specified pattern and ensuring maximum radiated power can be found by setting up vector eigen-functions of the operator L_t in an equation of this form: $\vec{F}=L_t\vec{\Phi}$, where both vector functions are tangential to the sphere. Then, the principal solution of the problem is given by: $\vec{\Phi}(\vec{r_0})=L_t^{-1}\vec{F}=\sum_t \frac{1}{\lambda_t}\vec{g}_t(\vec{r_0})\oint\vec{F}(\vec{r_0})\vec{g}_t^*(\vec{r_0})\,ds$. Here, $\vec{g}_t(\vec{r_0})$ are the elements of the orthonormalized basis of vector eigen-functions; L_t and λ_t are the corresponding eigen-values. Application of the above solution to two particular cases — a spherical layer and a spheroid layer — is considered. Orig. art. has: 86 formulas and 3 tables.

SUB CODE: 09 / SUBM DATE: 03Jul63 / ORIG REF: 006

L 45504-66 EWT(1)/T WR

ACC NR: AR6013696 SOURCE CODE: UR/0058/65/000/010/H038/H038

41
B

AUTHOR: Dymskiy, V. N.

TITLE: Concerning one approximate method of antenna synthesis

SOURCE: Ref. zh. Fizika, Abs. 10Zh260

REF. SOURCE: Tr. Kazansk. aviats. in-ta, vyp. 85, 1964, 11-24

TOPIC TAGS: antenna directivity, antenna radiation pattern, antenna synthesis, antenna configuration

ABSTRACT: The properties are considered of a certain vector field which is a functional of a specified directivity pattern of an antenna system. It is shown that a source distribution with bounded norm, coinciding with this field in an arbitrary finite region of space, ensures radiation of maximum power in a specified directivity pattern, without accurately realizing the latter in the general case. In the case of unbounded broadening of the region in which such sources are located, the actual directivity pattern approaches the specified one. Examples of the use of this field, serving as an auxiliary for the construction of approximate solutions of antenna synthesis problems, are presented. [Translation of abstract]

SUB CODE: 09

Card 1/1

GAVAGA, V.S.; KUZNETSOVA, G.M.; DYMURA, N.O.

Protective coatings made from perchlorovinyl lacquer. Koks i khim no.4:47-49 '62. (MIRA 16:8)

1. Zhdanovskiy koksokhimicheskiy zavod.
(Protective coatings)

DYMUS, Stanislaw A.

Angular correlations in the reaction $\bar{p} + d \rightarrow K^{o} + \Lambda + 3\pi$.
Acta physica Pol 26 no.2:189-197 '64.

1. Institute of Theoretical Physics of the University, Warsaw.

LEV, Naum Yakovlevich; DYMZA, Ya., red.; BLANKFEL'D, G.[Blankfelds,G.], red.; AYZUPIYETE, M.[Aizupiete, M.], tekhn. red.

[Large-panel and large-block construction]Krupnopanel'noe i krupnoblochnoe stroitel'stvo. Riga, Latviiskoe gos. izd-vo 1962. 243 p. (MIRA 15:11)
(Construction industry)

RUSIECKI, Wladyslaw; DYNAKOWSKI, Roman

Distribution of cyanides in the rat after fatal poisoning.
Acta pol. pharm. 20 no.4:315-320 '63.

1. Z Zakladu Chemii Toksykologicznej i Sadowej Akademii Medycznej w Warszawie Kierownik: prof. dr Wl. Rusiecki.
(CYANIDES) (METABOLISM)

L 00919-67 EWP(j)/T IJP(c) RM
ACC NR: AP6035463 (N) SOURCE CODE: PO/0099/66/040/004/0657/0662

46
B

AUTHOR: Tokarzewski, Ludomir and Dynarowicz, Alida of the Organic Technology Department, Teachers Training College (Katedra Technologii Chemicznej Wyzszej Szkoly Pedagogicznej) Katowice.

TITLE: Influence of Electric Still Discharges on Vinyl Chloride

SOURCE: Warsaw, Roczniki Chemii, Vol 40, No 4, 1966, pp 657-662.

Abstract: The influence of still electric discharges on vinyl chloride was investigated. Energy requirements and product yields were determined. The products were separated by gas chromatography, and some were isolated in the pure state. Attempts were made at their identification.
The authors thank master Engineer K. Zielenski and Master M. Hudsikow, Institute of Chemistry, Oswiecim for carrying out the chromatographic analysis of research products. Orig. art. has: 3 figures and 2 tables. [JPRS: 36,862]

TOPIC TAGS: vinyl chloride, electric discharge, gas chromatography

SUB CODE: 07,20 / SUBM DATE: 25 Jun 65 / ORIG REF: 001 / OTH REF: 003
SOV REF: 005

Card 1/1 UDC

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Dynarski R

PTA

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624.072 : 539.37

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Dynarski R. **The Coefficiency of Elastically Bonded Beams.**

„O współdziałaniu belek sprężyście sprężonych" Inżynieria i Budownictwo. No. 3. 1951. pp. 126—131. 9 figs

Solution, concerning tendency to deformation, of the problem of coefficiency between two parallel beams elastically bonded. Deduction of equations enabling the determination of the angle of inclination of the deformation curve, the bending moment and shear force.

DYNERSON, I.

Physiology of respiration in newborn. Pediat. polska 28 no.3:328-336 Mar 1953. (CIML 24:5)

1. Of the First Pediatric Clinic (Head--Prof. St. Popowski, M.D.) of Lodz Medical Academy.

DYNENSON, Izak

Pediatrician's views on certain obstetric problems. Gin. polska 27 no.3:319-327 May-June 56.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych A.M. w Lodzi Kierownik: prof. dr. J. Sieroszewski, Lodz, ul. Piotrkowska 123.

(OBSTETRICS,
relation to pediatrics (Pol))
(PEDIATRICS,
relation to obst. (Pol))

DYNESON, Izak; KRAWCZYK, Zofia; SKWIERCZYNSKA, Janina

An attempt to replace 2 % silver nitrate in the classic Crede's method with 20 % sulfathiazole solution. Gin. polska 29 no.3:271-274 May-June 58.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych A. M. w Lodzi Kierownik: prof. dr med. J-Sieroszewski oraz z Kliniki Chorob Oczu A.M. w Lodzi Kierownik: prof. dr J. Sobanski. Adres: Lodz, Curie-Sklodowskiej 15.

(OPHTHALMIA NEONATORUM, prev. & control
Crede's method, replacement of silver nitrate with sulfathiazole solution (Pol))
(SULFATHIAZOLE, ther. use
prev. of ophthalmia neonatorum in Crede's method, as substitute for silver nitrate (Pol))
(SILVER NITRATE
replacement with sulfathiazole in Crede's method for prev. of opthalmia neonatorum (Pol))

DYNENSON, Izaak

Labor crisis (labor shock). Ginekol.polska 30 no.3:315-325 My-Je '59.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych A. M. w Lodzi Kierownik: prof. dr J. Sierosławski.
(INFANT NEWBORN)
(DELIVERY)

DYNENSON, Izaak

Considerations on activities in wards for newborn infants. Gin. polska 32 no.2:215-219 '61.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych A.M. w Lodzi Kierownik: prof. dr J. Sieroszewski
(INFANT NEWBORN)

DYNENSON, Izaak; KOMOROWSKA, Alina; ZAJDLER, Barbara

The problem of mycoses in newborn infants. Gin. polska 32 no.2:221-227 '61.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych A.M. w Lodzi Kierownik: prof. dr J. Sieroszewski
(INFANT NEWBORN dis)
(MYCOSES in inf & child)

MIKULASZEK, E.;KOPACKA, B.;DYNER, E.

Studies on pyrogens from Pseudomonas aeruginosa and Salmonella typhi. Med. dosw. mikrob. 4 no.4:417-427 1952. (CLML 23:4)

1. Of the Institute of Medical Microbiology of Warsaw Medical Academy.

DYNER, Eugenia

SOBOLEWSKA, Maria; DYNER, Eugenia

Preventive application of chloromycetin during the epidemic of whooping cough in a nursery. Pediat. polska 29 no.5:537-541 May 54.

1. Wykonano pod kierunkiem prof. dr med. J.Bogdanowicza Kierownika Kliniki Chorob Zakaznych Wieku Dziecicego A.M. w Warszawie.
(WHOOPING COUGH, prevention and control, chloramphenicol)
(CHLORAMPHENICOL, prev. of whooping cough)

DYNER, E

ASKANAS, Alina; DYNER, Eugenie; SLOMOWNA, Barbara

Difficulties in differential diagnosis of pulmonary mycoses and tuberculosis. Pediat.polska 30 no.8:643-652 Aug '55.

1. Z Kliniki Terapii Chorob Dzieci A.M. w Warszawie. Kierownik: prof. dr med. H. Brokman, Z Laboratorium Zespolu Klinik Pediatrycznych Kierownik: dr med. E.Dyner; Z Zakladu Radiologii Dziecie cej A.M. w Warszawie. Kierownik: prof.dr med. K. Rowinski. Warszawa, Dzialdowska 1/3.

(TUBERCULOSIS, PULMONARY, in infant and child, differ.diag. from fungus dis.)
(LUNGS, diseases, fungus dis. in child.,differ. diag. from tuberc.)
(FUNGUS DISEASES, lungs, in child.,differ.diag. from tuberc.)

DYNHR, Eugenia; OKOLSKA, Wanda

A passive hemagglutination test as an indication of tuberculosis. Gruzlica 25 no.12:937-946 Dec 57.

1. Z Kliniki Terapii Chorob Dziecicych A. M. w Warszawie Kierownik: prof. Dr H. Brokman. Adres Klinika Terapii Chorob Dziecicych A. M. w W-wie, ul. Dzialdowska 1-3.
(TUBERCULOSIS, immunol.
Middlebrook-Dubos test, diag. value (Pol))

RUDZKI, Edward; DYNER, Eugenia; MOSKALEWSKA, Krystyna

Role of Escherichia coli sensitization in skin diseases.
Przegl. derm. 50 no.1:67-72 '63.

1. Z Kliniki Dermatologicznej AM w Warszawie Kierownik: prof. dr S. Jablonska Z Zakladu Mikrobiologii AM w Warszawie Kierownik: prof. dr E. Mikulaszek.
(ESCHERICHIA COLI) (ALLERGY) (SKIN TESTS)

ONUFRIYEV, Timofey Grigor'yevich, dots.; SHATNEV, Boris Nikolayevich, dots.; IVAN'KO, Timofey Yakovlevich, inzh.; GEROL'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; DYNER,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)

KARMINSKIY, A.B.; BOGIN, N.M., kand. tekhn. nauk; KACHUR, S.I., inzh.; DUBININ, F.A., inzh.; VAKS, A.B., inzh.; DYNER, I.I.; ROSSIUS, L.V.

Reviews and bibliography. Transp. stroi. 15 no.4; 58-61 Ap '65. (MIRA 18:6)

1. Glavnyy spetsialist po zemlyanomu polotnu Dneprogiprotransa (for Karminskiy). 2. Glavnyy spetsialist po sanitarnoy tekhnike Gosudarstvennogo proizvodstvennogo komiteta po transportnomu stroitel'stvu SSSR (for Dyner). 3. Glavnyy energetik Volgobaltstroya (for Rossius).

BULGARIA/Human and Animal Morphology - Muscles. S

Abs Jour : Ref Zhur Biol., No 5,1959, 21520

Author : Dynev, A.

Inst : The V. Chervenkov Medical Academy

Title : Clarification of the Origin and Transformation of the "Accessory Head" of the Abductor Digiti Quinti Muscle

Orig Pub : Nauchn. tr. med. akad. "V. Chervenkov", 1953 (1954), 1, No 1, 55-68

Abstract : A study was made of the palmar surface of 150 adult persons. In 18 cases (12%) an accessory head of the abductor digiti quinti muscle was found (musculus abductor digiti quinti accessorius -- Kadanova). On the basis of a study of the topography, innervation and phylogenic data the author concludes that the

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Abs Jour : Ref Zhur Biol., No 5, 1959, 21520

accessory head of the abductor digiti quinti muscle is a residue of the flexor digiti brevi manus digiti quinti muscle, which is rarely found in man (12%) and which during the course of its involution attached itself completely to the abductor muscle of the 5th digit, which is confirmed by the double innervation of the latter from the superficial and deep branches of the ulnar nerve. In 54.5% the double innervation is overt; in 45.4%, it is occult (in one branch there are fibers of both branches of the ulnar nerve). Bibliography with 29 titles. -- I.N. Mikhaylov

DYNIEWSKI, S.

B.

Polish Technical Abst.
No. 4, 1953
Chemistry and Chemical
Technology

2165 677.175.772.2.033(073)

Chrzeznowicz S., Dyniewski S. Catalytic Polymerisation of Caprolactam.

„Katalityczna polimeryzacja kaprolaktamu", (Prace Gł. Inst. Włók. No. 5), Warszawa, 1953, PWT, 9 pp., 2 figs., 4 tabs.

The problem of simplifying the method of obtaining steelen and of reducing production costs by substituting catalytic polymerisation for condensation methods. Experiments have revealed that sodium hydroxide influences the polymerisation of caprolactam, yielding a product with properties similar to those of steelon obtained by condensation method. The brief time of reaction suggests that the catalytic method may be of considerable value from an economic point of view. Tables of experimental results and graphs showing the relation of the degree of polymerisation to the quantity of catalyser are given together with a diagram of the apparatus used.

DYNIN, A.; MITIAGIN, B.

Criterion for nuclearity in terms of approximative dimension. Bul Ac Pol mat 8 no.8:535-540 '60.

1. State Lomonosow University, Moscow. Presented by S. Mazur.

(Functional analysis)

DYNIN, A.I., inzh.; NIKUSHIN, A., inzh.

Device for determining the wear of D-50 and D-100 diesel crankshafts. Biul. tekh.-ekon.inform. Tekh. upr. Min. mor. flota 7 no.5:79-85 '62. (MIRA 16:3)

1. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut morskogo transporta.
(Marine diesel engines--Maintenance and repair)

AUTHOR: Dynin,A.S. SOV/20-121-5-5/50

TITLE: On Spaces Nuclear in Different Senses (O prostranstvakh, yadernykh v razlichnykh smyslakh)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121,Nr 5,pp 790-792 (USSR)

ABSTRACT: As is well-known, the definitions of nuclear spaces according to Grothendieck [Ref 3] and Gel'fand [Ref 5] are not equal. Recently Raykov [Ref 1] has proved that in the case of barrel spaces a space being a nuclear space in the sense of Grothendieck is also nuclear in the sense of Gel'fand. The author completes this result by the theorem: In the classes of F-spaces and the complete DF-spaces both above mentioned definitions are equivalent. Furthermore the author uses a scheme of Raykov [Ref 2] for construction a space which is a nuclear space in the sense of Grothendieck and in the sense of Gel'fand is not a nuclear space. There are 5 references, 3 of which are Soviet, 1 American, and 1 Brazilian.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova (Moscow State University imeni M.V.Lomonosov)

PRESENTED: April 8, 1958, by P.S.Aleksandrov, Academician
SUBMITTED: April 4, 1958

Card 1/1

DYNIN, A.S.

Singular operators [illegible] manifold.
Dokl. AN SSSR 141 no.1:21-23 N '61. (MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavleno akademikom P.S. Aleksandrovym.
(Operators(Mathematics))
(Topology)

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S/020/61/141/002/004/027
C111/C444

AUTHOR: Dynin, A. S.

TITLE: n-dimensional elliptic boundary value problems with a single unknown function

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 2, 1961, 285-287

TEXT: Considered is the solvability of the general boundary value problem for an elliptic equation in the bounded domain G of the Euclidean space R^n ($n > 1$), and the reduction of the boundary value problem to a system of integro-differential equations on the infinitely smooth boundary $\dot{G}$ of G, which makes possible the application of the results of Ref. 1 of the author (Ref. 1: DAN 141, no. 1(1961)).

Let: $x = (x_1, \ldots, x_n) \in R^n$; $D = i^{-1}\left(\frac{\partial}{\partial x_1}, \ldots, \frac{\partial}{\partial x_n}\right)$, $\alpha = (\alpha_1, \ldots, \alpha_n)$, $|\alpha| = \alpha_1 + \ldots + \alpha_n$, $D^\alpha = i^{-|\alpha|}\partial^{|\alpha|}/\partial x_1^{\alpha_1} \ldots \partial x_n^{\alpha_n}$; ξ_x be the tangent vectors of $\dot{G}$ in $x \in \dot{G}$; τ_x be the unit vector of the inner normal in x; $A = \sum_{|\alpha| < 2k} a_\alpha(x) D^\alpha$ be an elliptic differential

Card 1/6

n-dimensional elliptic boundary . . .

polynomial with infinitely differentiable complex coefficients on $\bar{G}$; $\sigma_A(\xi_x, z) = \sum_{|\alpha|=2k} a_\alpha(x) \times (\xi_x + z\tau_x)^\alpha$ be the symbol of A. $B_i = \sum_{\beta \leq m_i} B_i^{(\beta)} \frac{\partial^\beta}{\partial \tau^\beta}$ $(i = 1,\ldots,k)$; $B_i^{(\beta)}$ be a singular operator of the order $m_{i\beta} \leq m_i - \beta$ on $\dot{G}$ (compare Ref. 11); $\sigma_{B_i}(\xi_x, z) = \sum_{m_{i\beta}+\beta=m_i} \sigma_{B_i}(\beta)(\xi_x) z^\beta$ be the symbol of B_i ($\sigma_{B_i^{(\beta)}}(\xi_x)$ is defined in Ref.1); $E(\bar{G})$ and $E(\dot{G})$ be the Schwartz spaces of infinitely differentiable functions on $\bar{G}$ and $\dot{G}$; $W_2^{(1)}(G)$ be the Sobolev space; $W_2^{(1-1/2)}(\dot{G})$ be the Slobodetskiy space (compare Ref. 3: L. N. Slobodetskiy, Uch. zap. Leningradsk. ped. inst., 197, 54(1958)).

The system $\mathfrak{A} = \{A, B_1,\ldots,B_k\}$ defines the operators

Card 2/6

n-dimensional elliptic boundary . . .

$$\mathcal{A} : E(\bar{G}) \to E(\overline{G}) \times (E(\dot{G}))^k; \qquad (1)$$

$$\mathcal{A} : W_2^{(l)}(G) \to W_2^{(l-2k)}(G) \times W_2^{(l-m_1-1/2)}(\dot{G}) \times \ldots \times W_2^{(l-m_k-1/2)}(\dot{G}) \qquad (2)$$

$$(l \geq \max \{2k, m_1 + 1, \ldots, m_k + 1\}).$$

The operator $\mathcal{A}$ is called elliptic, if for every fixed $\xi_x \neq 0$:
a) the roots of the z-polynomial $\sigma_A(\xi_x, z)$ are situated in equal numbers in the upper and the lower z-half-plane.
b) the z-polynomials $\sigma_{B_i}(\xi_x, z)$ $(i = 1,2,\ldots,k)$ are linear independant modulo the z-polynomial $\sigma_A^+(\xi_x, z) = \prod_{j \leq k} (z - z_j(\xi_x))$ where $z_j(\xi_x)$ $(j=1,\ldots,k)$ are the roots of $\sigma_A(\xi_x, z)$, lying in the upper z-half-plane.
This definition comes from Ya. B. Lopatinskiy.
Theorem 1: In order $\mathcal{A}$ to be elliptic, it is necessary and sufficient

n-dimensional elliptic boundary . . . .

that the apriori estimation

$$\|u\|_1 \leq C \left(\|Au\|_{1-2k} + \sum_{i \leq k} \|B_i u\|_{1-m_i-1/2} + \|u\|_0 \right), \quad u \in E(\overline{G}),$$

is satisfied, $\|\ \|_s$ being the norm in $W_2^{(s)}(G)$; $\|\ \|_{s-1/2}$ being the norm in $W_2^{(s-1/2)}(\dot{G})$ and C a constant, independant from u.

Theorem 2: In order $\mathcal{A}$ to be elliptic, it is necessary and sufficient that

a) the generalised solutions of $\mathcal{A}u = 0$ are infinitely differentiable

b) these solutions form a finite-dimensional subspace

c) the operators (1) and (2) are normally solvable

d) the defects of their ranges are finite and equal.

Let $\nu_{\mathcal{A}}$ be the dimension of the space $\mathcal{A}^{-1}(0)$; $\varrho_{\mathcal{A}}$ be the defect of the ranges of the operators $\mathcal{A}$; $\varkappa_{\mathcal{A}} = \nu_{\mathcal{A}} - \varrho_{\mathcal{A}}$ be the index of $\mathcal{A}$.

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C111/C444

n-dimensional elliptic boundary . . .

Theorem 3: 1.) The index $\varkappa_{\mathcal{A}}$ of the elliptic operator is determined by its symbol $\sigma_{\mathcal{A}}(\xi_x, z) = \{\sigma_A(\xi_x, z), \sigma_{B_1}(\xi_x, z), \ldots, \sigma_{B_k}(\xi_x, z)\}$.

2.) The index $\varkappa_{\mathcal{A}}$ is constant under uniformly small changes of the derivatives of order $\leq 2 \max\{n, k, m_1, \ldots, m_k\}$ of the symbol $\sigma_{\mathcal{A}}(\xi_x, z)$.

Let $\sigma_i'(\xi_x, z)$ $(i=1,\ldots,k)$ be the remainder under the division of $\sigma_{B_i}(\xi_x, z)$ by $\sigma_A^+(\xi_x, z)$ at a fixed $\xi_x \neq 0$. Let B_i' $(i = 1,\ldots,k)$ be the limit operator with the symbol $\sigma_i'(\xi_x, z)$.

Lemma: The indices of $\mathcal{A}$ and $\mathcal{A}' = \{A, B_1', \ldots, B_k'\}$ are equal.

Let $v_\beta = \partial^\beta u / \partial \tau^\beta$ $(\beta = 0,1,\ldots,k-1)$. Then the system B_i' changes into a system $\mathfrak{B}$ of singular operators in the space of the vector functions $(v_0, \ldots, v_{k-1})$. Let $\mathcal{D} = \left\{A, 1, \frac{\partial}{\partial \tau}, \ldots, \frac{\partial^{k-1}}{\partial \tau^{k-1}}\right\}$ be the operator

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n-dimensional elliptic boundary . . .

which corresponds to the first boundary value problem.

Theorem 4: $\mathfrak{X}_{\mathcal{A}} = \mathfrak{H}_{\mathcal{D}} + \mathfrak{X}_{\mathcal{S}}$.

Theorem 5: The elliptic operator $\mathcal{A} = \{ A, B \}$, where A is an operator of second order and the order of B being arbitrary, has the index 0.

There are 5 Soviet-bloc and 3 non-Soviet-bloc references. The 3 references to English language publication read as follows: P. D. Lax, Comm. Pure and Appl. Math., 8, no. 4, 615(1955); sborn. Matematika, 1, 43 (1957); M. Schechter, Comm. Pure and Appl. Math., 12, no. 4, 561(1959); sborn. Matematika, 4, 6(1960); S. Agmon, A. Douglis, L. Nirenberg, Comm. Pure and Appl. Math., 12, no. 4, 623(1959).

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova (Moscow State University imeni M.V.Lomonosov)

PRESENTED: June 2, 1961, by P. S. Aleksandrov, Academician

SUBMITTED: June 2, 1961

Card 6/6

S/020/62/146/003/003/019
B172/B186

AUTHORS: Agranovich, M. S., Dynin, A. S.

TITLE: General boundary value problems for elliptic systems in multi-dimensional regions

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 146, no. 3, 1962, 511-514

TEXT: The results reviewed here, have already been published for the case of one single equation (A. S. Dynin: DAN, v. 141, no. 2, (1961)).

Consideration is given to a region G of R^n, the operator

$$Au = A(x,D)u(x)$$

in G, and the operator

$$Bu = B(x,D)u(x)$$

on the boundary Γ, where A is a matrix of the order p, $D = (D_1,\ldots,D_1)$, $D_j = -i\frac{\partial}{\partial x_j}$, and B is a matrix with $r = ps/2$ rows and p columns. The elements of A and B are linear partial differential operators. The

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General boundary value problems...

coefficients of the operators of A and B must be functions in $\bar{G}$ differentiable any number of times, and singular integral operators on Γ, respectively. The three formulated theorems contain (1) necessary and sufficient conditions for $\alpha = (A,B)$ to be elliptic; (2) the dependence of index $\varkappa(\alpha)$ on the boundary conditions; (3) the conditions under which $\varkappa(\alpha_1) = \varkappa(\alpha_2)$, where $\alpha_1 = (A,B_1)$ and $\alpha_2 = (A,B_2)$, is valid.

ASSOCIATION: Vsesoyuznyy zaochnyy mashinostroitel'nyy institut Petrozavodskiy gosudarstvennyy universitet (All-Union Corresponding Machinebuilding Institute of Petrozavodsk State University)

PRESENTED: April 16, 1962, by I. G. Petrovskiy, Academician

SUBMITTED: April 9, 1962

Card 2/2

MANDEL'BROYT, S.[Mandel'brojt, Shulim]; GORIN, Ye.A.[translator]; DYNIN, A.S.[translator]; MITYAGIN, B.S.[translator]; PLUZHNIKOVA, N.I., red.; PRIDANTSEVA, S.V., tekhn. red.

[Closed theorems and theorems of composition]Teoremy zamknutosti i teoremy kompozitsii; zapis' lektsii i perevod vypolneny E.A.Gorinym, A.S.Dyninym, B.S.Mitiaginym. Moskva, Izd-vo inostr. lit-ry, 1962. 153 p. (MIRA 16:1)
(Fourier transformations) (Series, Taylor's)

POL'SKIY, N.I.; GOKHBERG, I.TS.; DYNIN, A.S.; SOLOMYAK, M.Z.; VILENKIN, N.Ya.; BRODSKIY, M.L.; SKLYARENKO, Ye.G.

Summaries of papers accepted for publication by the Moscow Mathematical Society. Usp. mat. nauk 18 no.2:179-188 Mr-Ap '63. (MIRA 16:8)
(Moscow--Mathematical societies)

DYNIN, Boris Semenovich; SAVVATEYEVA, G.N., red.; ATROSHCHENKO, L.Ye., tekhn. red.

[In the inmost recesses of scientific creation] V tainikakh nauchnogo tvorchestva. Moskva, Izd-vo "Znanie," 1964. 45 p. (Novoe v zhizni, nauke, tekhnike. II Seriia: Filosofiia, no.3) (MIRA 17:3)

GLINSKIY, Boris Aleksandrovich; GRYAZNOV, Boris Semenovich; DOBRIN, Boris Semenovich; NIKITIN, Yevgeniy Petrovich; MAGNUS-SOKHINSKIY, V.S., red.

[Modeling as a scientific research technique; a gnoseological analysis]Modelirovanie kak metod nauchnogo issledovaniia, gnoseologicheskii analiz. Moskva, Izd-vo Mosk. univ., 1965. 246 p. (MIRA 18:8)

DYNIN, F.M., inzh.; KHAYLO, V.S., inzh.

Removal of dust and fluff in textile enterprises. Mekh. i avtom. proizv. 18 no.7:17-20 Jl '64. (MIRA 17:9)

SADOV, F.I., doktor tekhn. nauk, prof.; CHAPLINA, N.D.; IVLIYEV, V.G.; LUR'YE, A.L.; ABEZGUZ, A.Ya.; DYNIN, F.M.; ESKIN, I.L.; VASIL'YEV, G.V.; GAL'PERIN, M.M., retsenzent; IL'INSKIY, N.S., retsenzent; MORYGANOV, P.V., doktor tekhn. nauk, prof., retsenzent; MOSHKIN, V.I., retsenzent; RUDAKOV, D.N., retsenzent; TSVETKOV, M.N., retsenzent; DUKHOVNYY, F.N., red.

[Design and planning of finishing factories for the cotton industry] Proektirovanie otdelochnykh fabrik khlopchatobumazhnoi promyshlennosti. Moskva, Legkaia industriia, 1965. 355 p. (MIRA 18:7)

DYNIN, I., inzh.; NIKUSHKIN, L., inzh.

Equipment for the mechanization of marine engine repairs. Mot. flot 22 no.7:30-32 Jl '62. (MIRA 15:7)

1. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut morskogo transporta.
(Marine engines--Maintenance and repair)

BOBKOV, V. (g.Leningrad); VAGIN, A. (Dzerzhinsk); GENGRINOVICH, L.; DYNIN, I.; NIKUSHKIN, L.

What is the news? Izobr. i rats. no.8:18 Ag '62. (MIRA 15:9)

1. Predsedatel' Mogilevskogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Gengrinovich).

(Technological innovations)

DYNIN, I., inzh.; NIKISHKIN, L., inzh.

By the call of the heart. NTO 4 no.12:29 D '62. (MIRA 16:1)
(Astrakhan--Ships--Maintenance and repair)

ACCESSION NR: AP4036005 S/0259/64/000/001/0038/0040

AUTHOR: Dy*nin, I. (Engineer); Nikushkin, L. (Engineer)

TITLE: Ships made of reinforced concrete

SOURCE: Nauka i tekhnika, no. 1, 1964, 38-40

TOPIC TAGS: plastic concrete, reinforced concrete, ship, barge, dry dock, ship repair, ship building, ship designing

ABSTRACT: Ships made of reinforced concrete, although heavier than steel, would provide several advantages. Such ships would not require major repair, and their longevity would be appreciably increased. The cost of 1 m^3 of reinforced concrete, as compared to the monolithic method of ship building, would decrease by 15-20% and 30% fewer workers would be required. In addition, this new technology would quadruple the output. Additional research is required for the development of non-concrete cements, plastic concrete, and mechanized means of producing cement. The current seven-year plan provides for the construction of several experimental reinforced concrete ships of various types, using new construction methods. Orig. art. has: 1 figure.

Card 1/2 SOYUZMORNIIPROYEKT

DYNIN, I.A.; NIKUSHKIN, L.A.

Competition-review in the Caspian Steamship Line. Biul. tekh.-ekon. inform. Tekh. upr. Min. mor. flota 7 no.4:123-127 '62. (MIRA 16:4)

1. Gosudarstvennyy institut po proyektirovaniyu morskikh portov i sudoremontnykh predpriyatiy.
(Caspian Sea--Ships--Technological innovations)

DYNIN, I.A., inzh.; NIKUSHKIN, L.A., inzh.

Means of mechanization and technological processes of diesel engine repair. Biul. tekh.-ekon. inform. Tekh. upr. Min. mor. flota 7 no.12:52-64 '62. (MIRA 16:11)

DYNIN, M.Ye.; SHUB, Ye.L.

Work in lowering the incidence of quinsy. Sov.zdrav. 15 no.5 supplement: 4-6 0 '56. (MLRA 10:1)

1. Medsanchast' Uralmashzavoda, Sverdlovsk.
(TONSILITIS, prev. and control
quinsy)

DYNIN, V., inzh.; BERMSLAVSKIY, A., inzh.

Houses build of large keramzit-concrete blocks and panels.
Zhil.stroi. no.8:7-10 '60. (MIRA 13:7)
(Kuybyshev--Concrete slabs)
(Apartment houses)

28183

S/190/61/003/010/012/019
B124/B110

15.8080

AUTHORS: Fedotova, O. Ya., Kerber, M. L., Losev, I. P., Genkina, G. K., Dynina, L. B.

TITLE: Some properties of aromatic and aryl-aliphatic polyamides prepared by interfacial polycondensation. II

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 10, 1961, 1524 - 1527

TEXT: The authors studied the effect of different organic solvents, of the concentration of reagents, of lyes and emulsifiers upon the non-equilibrium interfacial polycondensation of aromatic diamines (p-phenylene diamine, 4,4'-diamino-diphenyl (benzidine), diamino-diphenyl methane, 4,4'-diamino-diphenyl ethane (DPE)) with chlorides of dicarboxylic acids (sebacic-acid chloride). The aim of the present study was to synthesize polymers having higher molecular weight and higher strength than those synthesized as yet. Polycondensation was conducted in a device for milling tissues. The results obtained as to the effect of the nature of the organic solvent upon the viscosity of the polymer for a concentration of reagents of 0.05 moles/liter are given in a table. Therefrom, it

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Some properties of aromatic...

becomes evident that (except for DPE which has the highest viscosity in CCl_4) the best results are obtained in aromatic hydrocarbons. Since the polymer is poorly soluble in all these solvents, the effect of these solvents depends upon the different polarity of molecules. The viscosity of the polymer depends slightly on the concentration of the initial components in the range of 0.005 to 0.05 moles/liter; an exception is the polymer of DPE, the viscosity of which considerably increases between 0.0125 and 0.015 moles/liter (Fig. 1). The viscosity of the polymer proved to be independent of the excess of initial components. Fig. 3 shows that the viscosity of polyamide solutions increases up to a KOH excess of 2 - 2.5 equivalents; the viscosity of the polymer on the basis of benzidine, however, anomalously increases in acid solution. This phenomenon could not be explained as yet. Also the effect of three different types of emulsifiers upon the viscosity of polyamides was studied, viz., of the high-molecular protective type (Solvar = incompletely saponified polyvinyl acetate), of the ionogenic type (sodium lauryl sulfonate), and of the non-ionogenic type (OP-10 (OP-10) = ester of isooctyl phenol and of polyethylene glycol with 10 hydroxy-ethyl groups). Best results were obtained when using 0.3% OP-10 referred to

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Some properties of aromatic...

the aqueous phase. The viscosity of the polymer on the basis of benzidine increased to nearly the double, that of the polymer of DPE to the 1.5-fold. The viscosity of other polymers increased somewhat less. By observing the optimum conditions found, it was possible to obtain polymers of an intrinsic viscosity of 0.6 - 0.7 in concentrated H_2SO_4.

L. B. Sokolov (Ref. 2: Vysokomolek. soyed. 1, 698, 1960) is mentioned. There are 3 figures, 1 table, and 3 references: 2 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: British Patent no. 737184.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

SUBMITTED: November 19, 1960

Card 3/6

DYNINA, Mariya Aleksandrovna, dots.; PODGORNOVA, V., red.; MUKHIN, Yu., tekhn. red.

[The organization of workers' wages] Kak organizovana zarabotnaia plata rabochikh. Moskva, Gos.izd-vo polit.lit-ry, 1961. 46 p. (MIRA 14:12)

1. Moskovskaya vysshaya partiynaya shkola (for Dynina).
(Wage payment systems)

USSR/Human and Animal Morphology - Pathological Anatomy. S

Abs Jour : Ref Zhur Biol., No 5, 1959, 21637

Author : Dynina, R.F.

Inst : Leningrad Medical Institute

Title : The Problem of the Erythrocyte Content in the Lymphatic Sinuses in Certain Types of Death

Orig Pub : Sb. tr. Kafedry sudebn. med. 1-y Leningr. med. in-t, 1958, No 2, 202-206

Abstract : In different types of death (drowning, alcohol intoxication, traumatic injuries, diseases of the cardiovascular system) there are solitary erythrocytes or small accumulations of them in the lymphatic nodes. In cases of diseases of the cardiovascular system the number of erythrocytes increases considerably. The presence of erythrocytes in the lymph nodes

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USSR/Human and Animal Morphology - Pathological Anatomy. S

Abs Jour : Ref Zhur Biol., No 5, 1959, 21637

represents a physiological phenomenon and is not the result of intravital injuries of corresponding parts of the body. -- A.I. Braude

Card 2/2

DYNINA, R.F.; KAZANTSEV, L.I.; SHVARTS, E.G.

Poisoning with pachycarpine. Sud.-med. ekspert. 4 no.4:35-38 O-N-D '61. (MIRA 14:12)

1. Leningradskoye gorodskoye byuro sudebnomeditsinskoy ekspertizy (nachal'nik - kand.med.nauk M.A.Dal') i kafedra sudebnoy meditsiny (zav. - prof. A.P.Kurdyumov) I Leningradskogo meditsinskogo instituta imeni akademika I.P.Pavlova.
(PACHYCARPINE--TOXICOLOGY)

MYNINA, R.F.

Inversion of the uterus following an abortion. Sud.-med. ekspert. 7 no.3:47-48 Jl-S '64. (MIRA 17:10)

1. Kafedra sudebnoy meditsiny (zav. - prof. A.P. Kondyurov) I Leningradskogo meditsinskogo instituta imeni I.P. Pavlova.

DYNKEVICH, E.S.; GOL'DINA, R.M.

Organization of medical care for children in day nurseries and kindergartens of collective farms in Gorkiy Province. Vop.okh.mat. i det. 4 no.6:60-63 N-D. '59. (MIRA 13:4)

1. Iz Gor'kovskogo pediatricheskogo nauchno-issledovatel'skogo instituta ministerstva zdravookhraneniya RSFSR (direktor N.P. Zhukova, nauchnyy rukovoditel' - prof. A.G. TSeytlin).
(GORKIY PROVINCE--CHILDREN--INSTITUTIONAL CARE)

DYNKEVICH, N.D.

KHLEBNIKOVA, Ye.A.; DYNKEVICH, N.D.

Irkutsk province stomatological conference. Stomatologiia 35 no.5:64 S-O '56 (MLRA 10:4)

(STOMATOLOGY)

DYNKIEROWSKI, Z.

Let us put in order the management of packing materials, p. 4. Let us talk, p. 4. (POLNIK SPOLDZIELCA, Warsawa, Vol. 8, no. 8, Feb. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, Jan. 1955, Uncl.

DYNKIN, A.V.

For the residents of Stalingrad; interview with A.V. Dynkin, president of the executive committee of the Stalingrad Municipal Council of Workers Deputies. Prom.koop. 13 no.1:23-24 Ja '59. (MIRA 12:2)

1. Predsedatel' ispolkoma Stalingradskogo gorodskogo Soveta deputatov trudyashchikhsya.
(Stalingrad--Municipal services)

DYNKIN, Aleksandr Vasil'yevich

[In an ancient land] Na drevnei zemle. Stalingrad, Stalingradskoe knizhnoe izd-vo, 1960. 77 p. (MIRA 14:11)
(Egypt--Description and travel)

DYNKIN, Aleksandr Vasil'yevich; FEDOROV, N.A., red.

[Open distances] Otkrytye dali. Volgograd, Volgogradskoe knizhnoe izd-vo, 1963. 405 p. (MIRA 18:2)

DYNKIN, G.

Fishery Products - Preservation

Organize wide exchange of experience among barrel factories. Ryb. khoz. 28 no. 1, 1952.

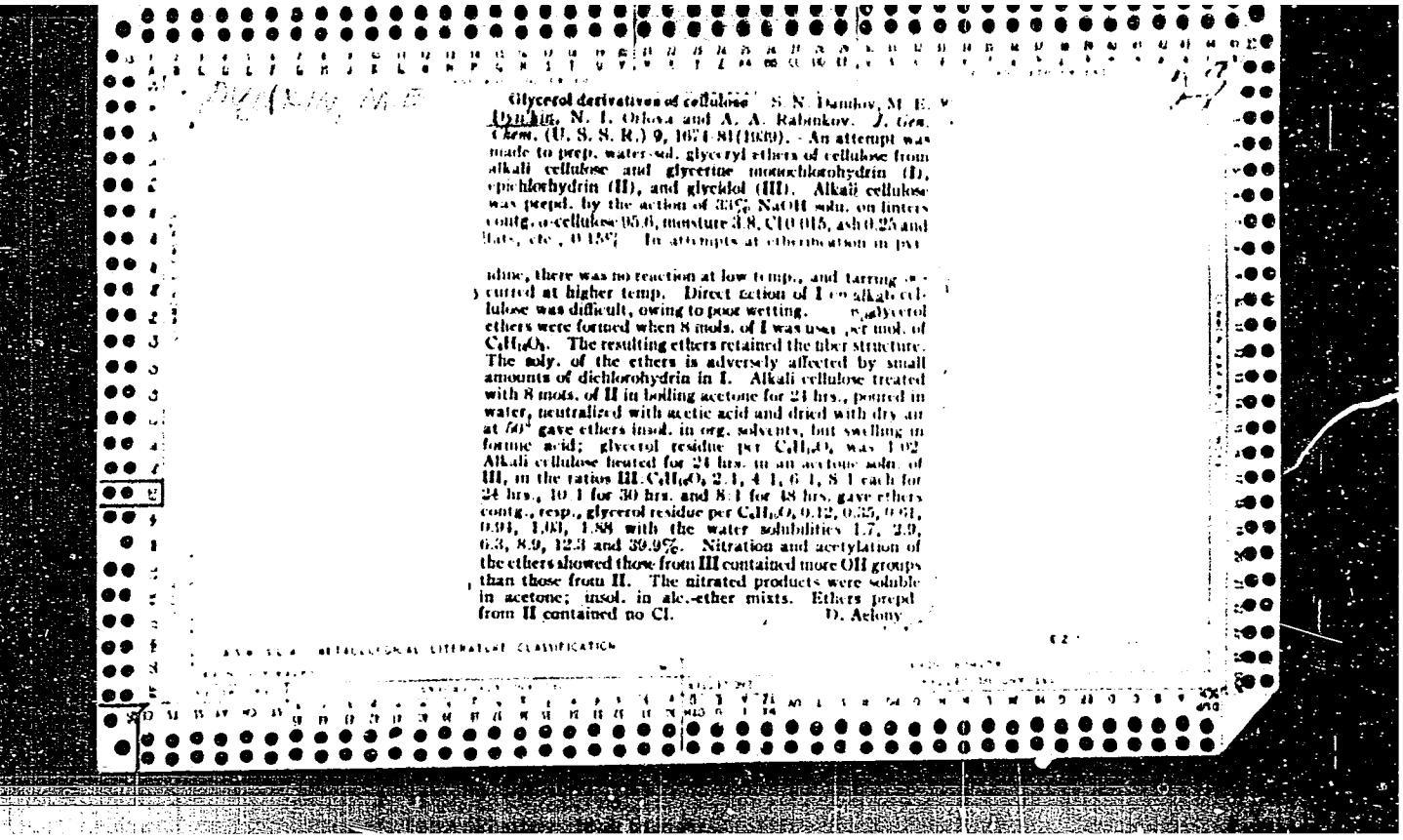
9. Monthly List of Russian Accessions, Library of Congress, April 1952 ~~1953~~, Uncl.

DYNKIN, G.Z.

BELYAKOV, F.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIN, I.N.; GUREVICH, G.M.; GORBUNOVA, P.I.; KONNOV, A.S.; KALANTAROVA, M.V.; KASHIRSKIY, A.Ya.; KAZANCHEYEV, Ye.N.; LEKSUTKIN, A.F.; LETICHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.; SUBBOTINA, V.P.; TANASIYCHUK, N.P.; FEDOTOV, S.D.; FISENKO, K.N.; EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALECHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN, D.A.; IVANNIKOV, A.Ya.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY, A.F.; SEREZHNIKOV, V.K.; SEMIGLASOV, M.D.; SOKOLOV, A.V.; STEPANOV, V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.; CHIKINDAS, G.S.; SHCHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.; OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO, I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.; VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISTRATOV, A.G.; TIKHOMIROV, I.F.; BUTYRIN, Ya.N.; VOLYNSKIY, S.A.; MINEYEV, M.F.; MAL'TSEV, V.I.; VIDETSKIY, A.F., kand.tekhn.nauk, glavnyy red.; DEMIDOV, A.N., red.; KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red.

[Industrial Astrakhan] Promyshlennaia Astrakhan'. Astrakhan', Izd-vo gazety "Volga," 1959. 318 p. (MIRA 12:11)

1. Astrakhan (Province) Ekonomicheskiy administrativnyy rayon. (Astrakhan Province--Economic conditions)



Glycerol derivatives of cellulose. S. N. Danilov, M. E. Dyatkin, N. I. Orlova and A. A. Rabinkov. *J. Gen. Chem.* (U. S. S. R.) 9, 1671-81 (1939). - An attempt was made to prep. water-sol. glyceryl ethers of cellulose from alkali cellulose and glycerine monochlorohydrin (I), epichlorhydrin (II), and glycidol (III). Alkali cellulose was prepd. by the action of 31% NaOH soln. on linters contg. α-cellulose 95.6, moisture 3.8, Cl 0.015, ash 0.25 and fats, etc., 0.15%. In attempts at etherification in pyridine, there was no reaction at low temp., and tarring occurred at higher temp. Direct action of I on alkali cellulose was difficult, owing to poor wetting. Polyglycerol ethers were formed when 8 mols. of I was used per mol. of $C_6H_{10}O_5$. The resulting ethers retained the fiber structure. The sol'y. of the ethers is adversely affected by small amounts of dichlorohydrin in I. Alkali cellulose treated with 8 mols. of II in boiling acetone for 24 hrs., poured in water, neutralized with acetic acid and dried with dry air at 50° gave ethers insol. in org. solvents, but swelling in formic acid; glycerol residue per $C_6H_{10}O_5$ was 1.02. Alkali cellulose heated for 24 hrs. in an acetone soln. of III, in the ratios III:$C_6H_{10}O_5$ 2:1, 4:1, 6:1, 8:1 each for 24 hrs., 10:1 for 30 hrs. and 8:1 for 48 hrs. gave ethers contg., resp., glycerol residue per $C_6H_{10}O_5$ 0.12, 0.55, 0.61, 0.91, 1.03, 1.88 with the water solubilities 1.7, 2.9, 6.3, 8.9, 12.3 and 39.9%. Nitration and acetylation of the ethers showed those from III contained more OH groups than those from II. The nitrated products were soluble in acetone; insol. in alc.-ether mixts. Ethers prepd. from II contained no Cl. D. Aelony

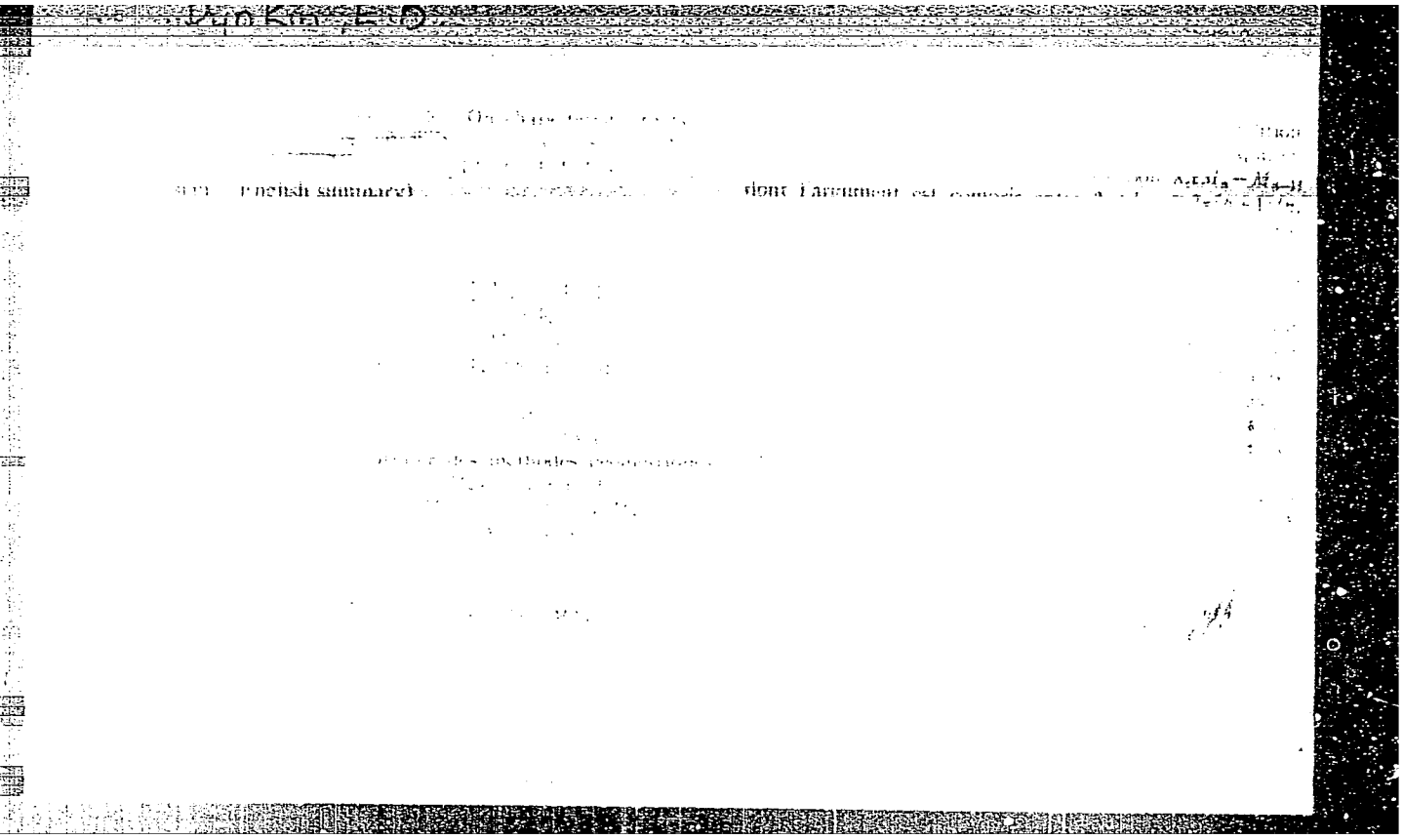
DYNKIN, M. E.

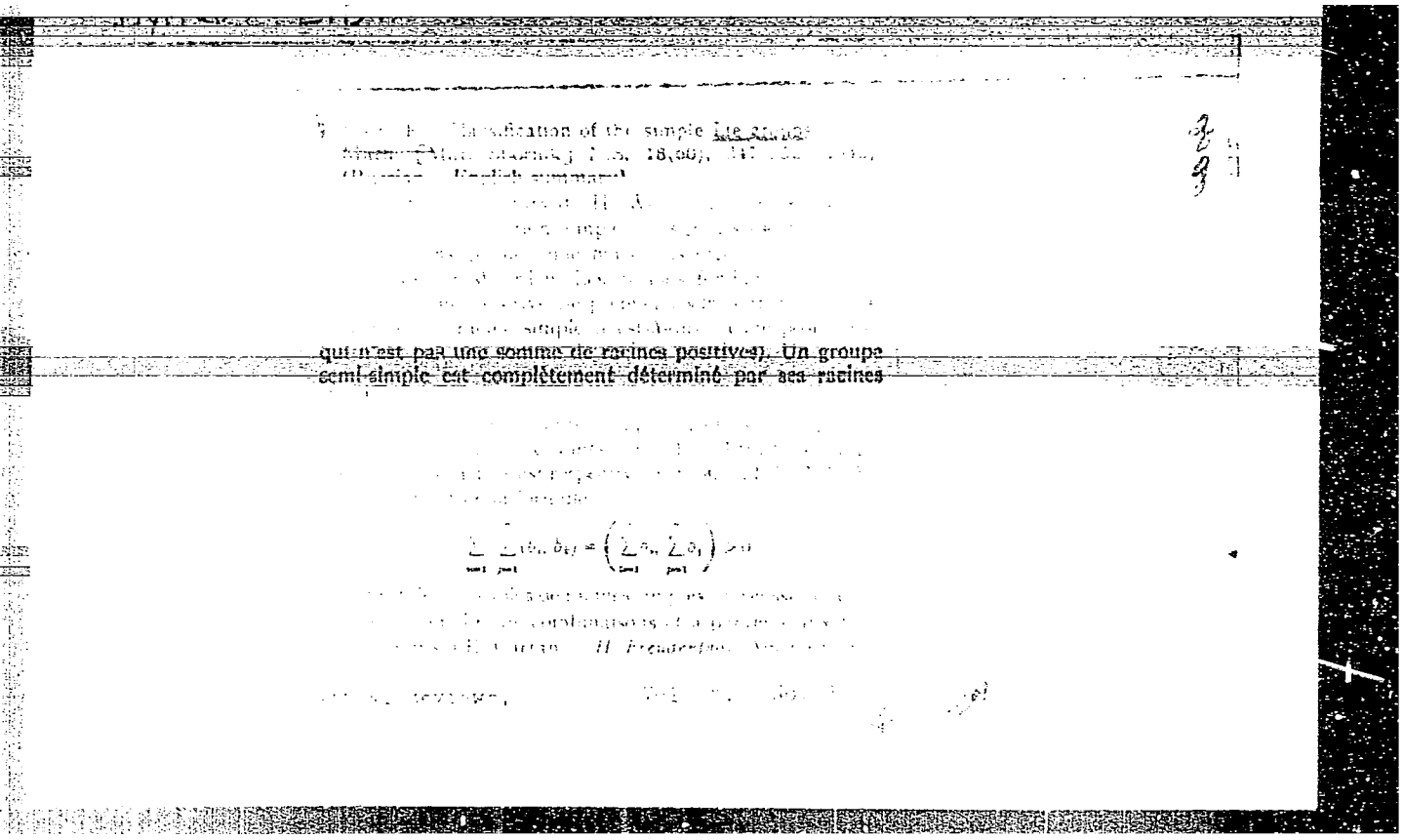
"Interaction of Nitrocellulose and Solvents." Danilov, S. N. and Dynkin, M. E. (p. 550)

SO: Journal of General Chemistry(Zhurnal Obshchei Khimii) 1945, Volume 15, no. 6.

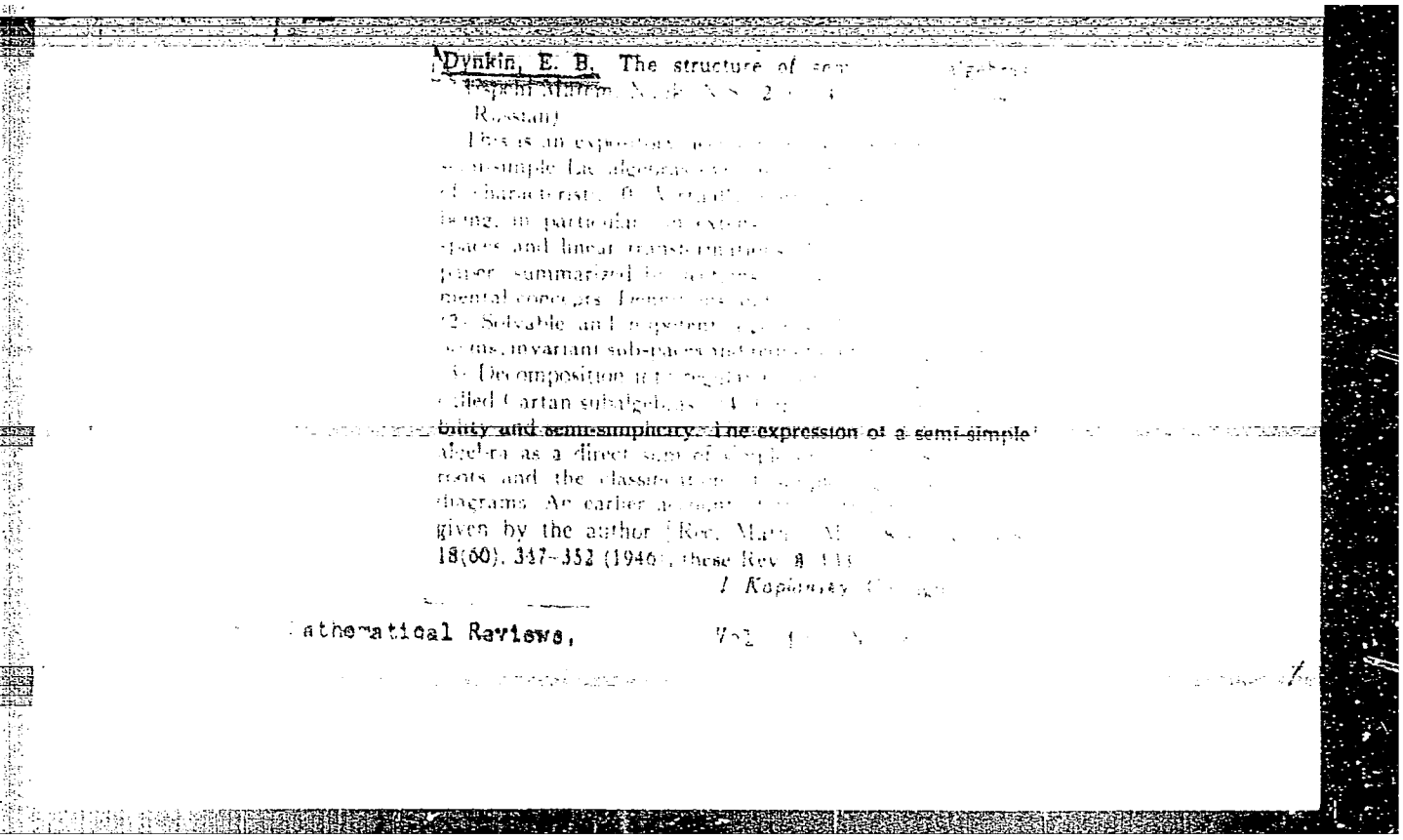
SLIVNITSKIY,B.; DYN'KIN,S., redaktor; PROSHINA,L., redaktor; DENISOVA,O., tekhnicheskiy redaktor

[Short-term credit to collective farms for production expenses] Kratkosrochnoe kreditovanie kolkhozov na proizvodstvennye zatraty. Moskva, Gosfinizdat, 1955. 39 p. (MIRA 9:3)
(Credit)





qui n'est pas une somme de racines positives). Un groupe semi-simple est complètement déterminé par ses racines



Dynkin, E. B. The structure of [illegible]

[illegible] Mathem. N.S. [illegible]

Russian)

This is an exposition [illegible]

[illegible] simple Lie algebras [illegible]

[illegible] characteristic [illegible]

being, in particular, [illegible]

spaces and linear transformations

paper summarized [illegible]

mental concepts. [illegible]

2. Solvable and [illegible]

roots, invariant sub-spaces and [illegible]

3. Decomposition [illegible]

called Cartan subalgebras [illegible]

unity and semisimplicity. The expression of a semi-simple

Lie algebra as a direct sum of simple

roots and the classification

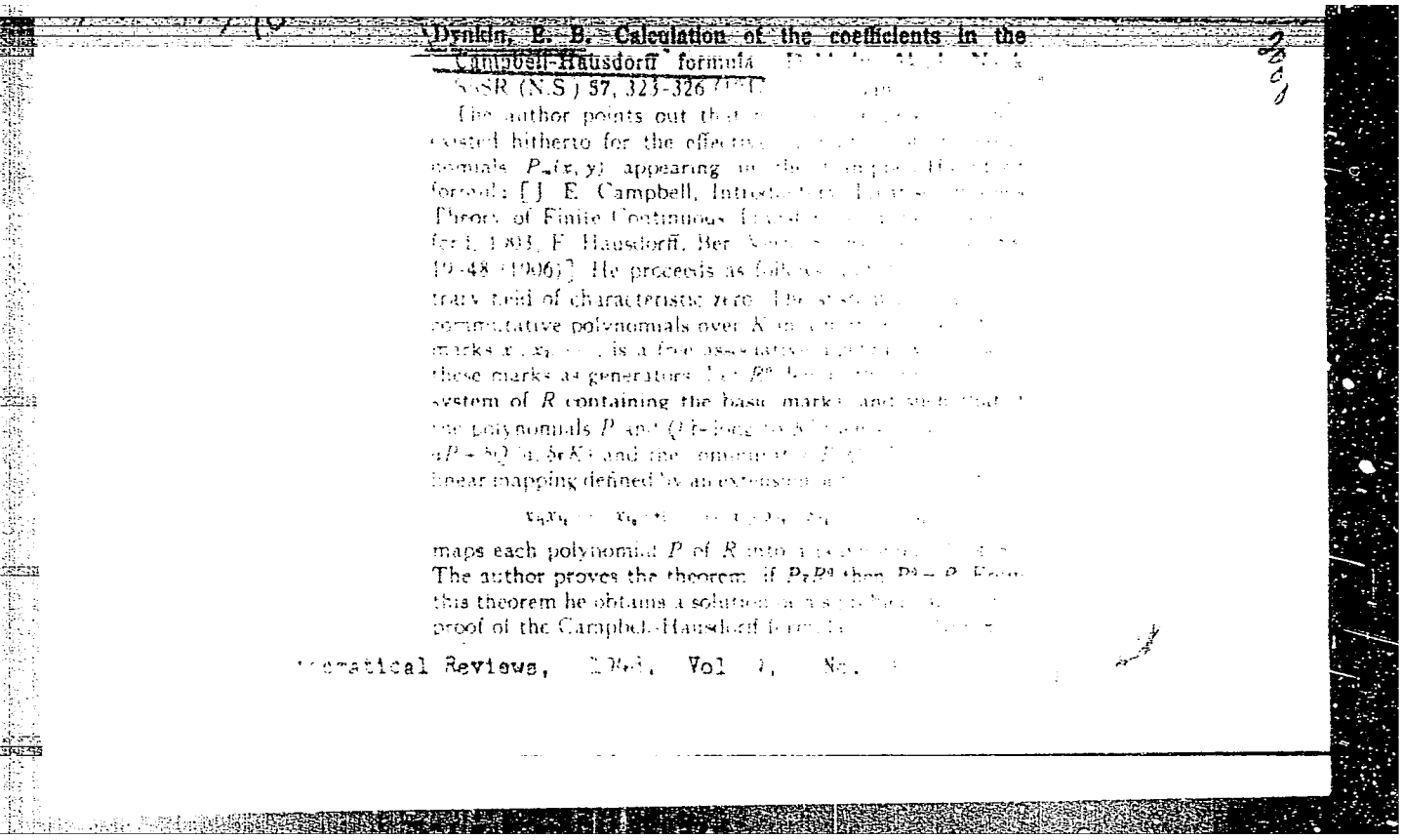
diagrams. An earlier account

given by the author [Rec. Math. [illegible]

18(60), 347–352 (1946); these Rev. 8, 11]

I. Kaplansky

Mathematical Reviews, Vol. [illegible]



Dynkin, E. B. Calculation of the coefficients in the Campbell-Hausdorff formula

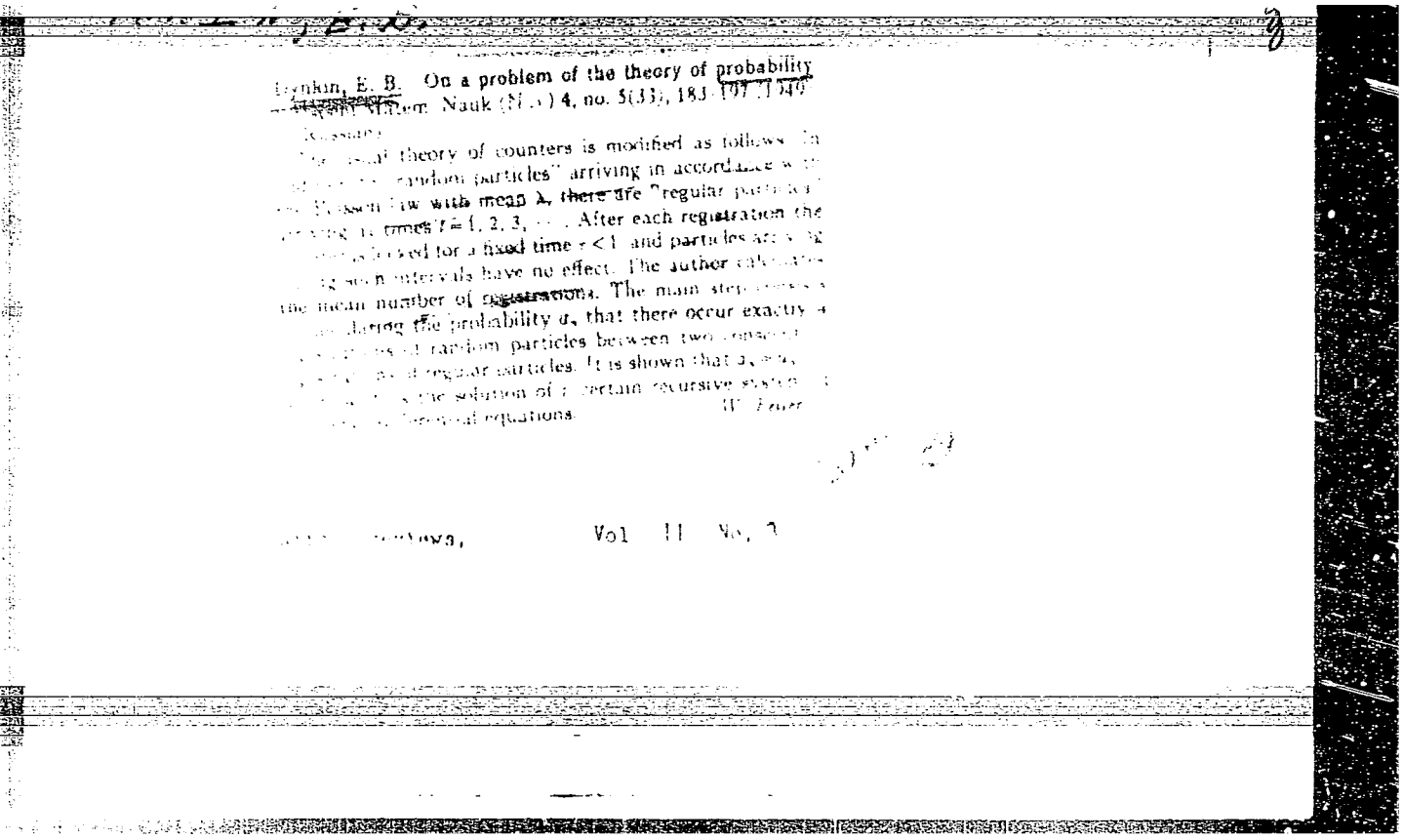
DoSR (N.S.) 57, 323-326 [illegible]

The author points out that [illegible] existed hitherto for the effective [illegible] monials $P_n(x, y)$ appearing in the [illegible] formula: [J. E. Campbell, Introductory Treatise on Lie's Theory of Finite Continuous Transformation Groups, Oxford, 1903, F. Hausdorff, Ber. Verh. Sächs. Akad. Wiss. Leipzig 58, 19-48 (1906)]. He proceeds as follows: Let K be a field of characteristic zero. The associative commutative polynomials over K in the [illegible] marks $x_1, x_2, \ldots$ is a free associative [illegible] these marks as generators. Let R be a [illegible] system of R containing the basic marks and [illegible] the polynomials P and Q belonging to R [illegible] $aP + bQ$ ($a, b \in K$) and the commutator $PQ - QP$. The linear mapping defined by an extension of the [illegible]

$$x_{\alpha_1} x_{\alpha_2} \cdots x_{\alpha_s} \to x_{\alpha_1} x_{\alpha_2} \cdots x_{\alpha_s} x_{\alpha_{s+1}} + x_{\alpha_2} x_{\alpha_3} \cdots x_{\alpha_{s+1}} x_{\alpha_1}$$

maps each polynomial P of R into [illegible]. The author proves the theorem: if $P_1 P^2$ then $P^2 = P$. From this theorem he obtains a solution [illegible] proof of the Campbell-Hausdorff formula.

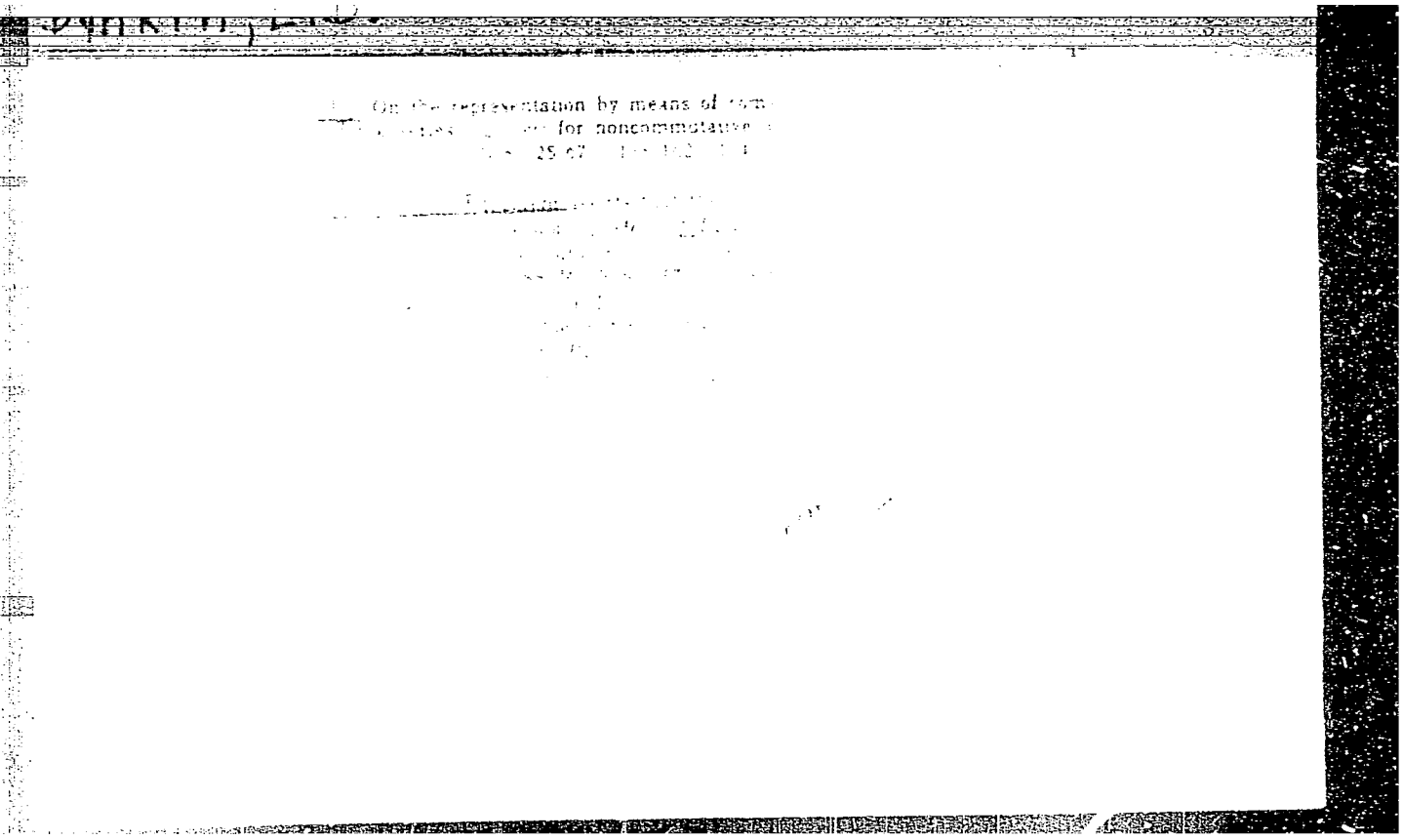
[illegible]matical Reviews, [illegible], Vol. [illegible], No. [illegible]

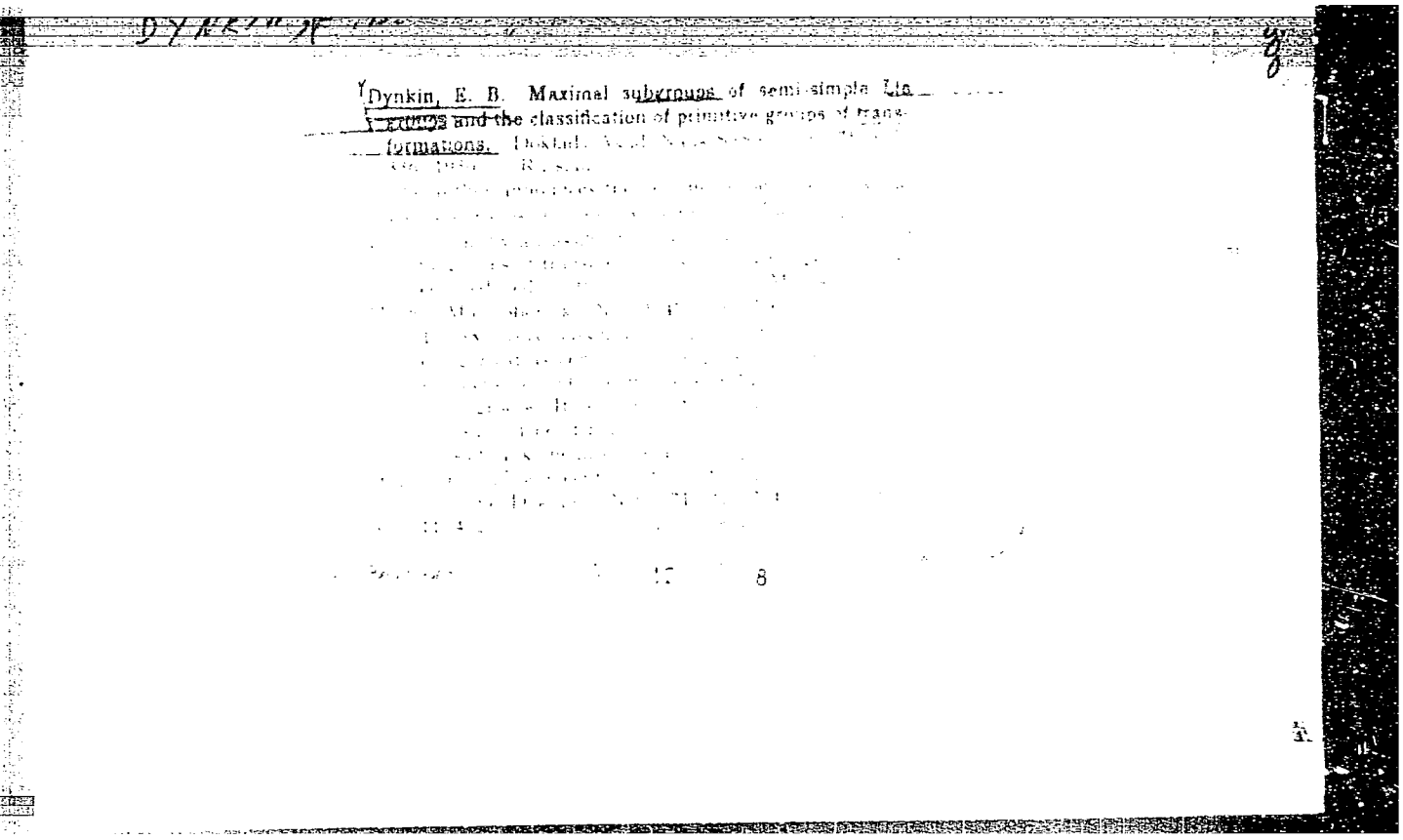


Lynkin, E. B. On a problem of the theory of probability
[illegible] Nauk (N.S.) 4, no. 5(33), 183-[illegible]

[illegible] theory of counters is modified as follows. In [illegible] random particles" arriving in accordance with [illegible] Poisson law with mean λ, there are "regular particles" [illegible] registering at times $t = 1, 2, 3, \ldots$. After each registration the [illegible] closed for a fixed time $\tau < 1$ and particles arriving [illegible] at such intervals have no effect. The author calculates the mean number of registrations. The main step consists in deriving the probability a_r that there occur exactly r [illegible] of random particles between two [illegible] of regular particles. It is shown that a_r [illegible] the solution of a certain recursive system [illegible] differential equations.

[illegible] Vol. [illegible] No. [illegible]





Dynkin, E. B. Maximal subgroups of semi-simple Lie groups and the classification of primitive groups of transformations. [illegible]

8

Lie algebras and analytic groups.

S 5 no. 1(35), 135-186 (1950)

corps valué complet K est sur L une norme $|x|$ vérifiant la structure vec pour $x, y \in L$. On est évidemment le cas les nombres complexes on peut associer à

une telle algèbre un ... de groupe topologique $G(L)$; pour cela, on construit ... $\log (e^x e^y)$ en fonction de x, y et de leurs commutateurs successifs, et on constate ... convergente lorsque x et y sont en norme assez petits. Ceci permet de définir une multiplication pour des éléments voisins de 0 ... par définition à la somme de la série en question. L'auteur montre ensuite ... sous-algèbres ... spondantes dans ... de ce travail ... classiques ... essentiellement ... la première ... résultats ... des nombres ... connu ... les corps p-adiques ...

Mathematical Reviews Vol. 11 No. 9

DYNKIN, Ye. B.

"Maximal Subgroups of Classic Groups." Sub 23 May 51, Moscow Order of Lenin State U imeni M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

DYNKIN, Ye. B.

177T52

USSR/Mathematics - Probability Jan/Feb 51

"Necessary and Sufficient Statistics for a Family of Probability Distributions," Ye. B. Dynkin

"Uspekhi Matemat Nauk" Vol VI, No 1 (41), pp 68-90

Cf. D. Blackwell, "Conditional Expectation and Unbiased Sequential Estimation," "Annals of Math Statistics," 18 (1947), 105-110; H. Cramer, "Mathematical Methods of Statistics," Princeton, 1948. Investigates herein gen problem of calculating sufficient statistics for given family of probability distributions. Four examples.

LC

177T52

DYNKIN, Ye. B.

PA 196T77

USSR/Mathematics - Mathematical Societies Nov/Dec 51

"Sessions (11 and 18 September 1951) of the Moscow Mathematical Society"

"Uspekh Matemat Nauk" Vol VI, No 6 (46), pp 155-157

P. S. Aleksandrov, Pres of the Society, noted that 14 Sep 51 was the 60th birthday of I. M. Vinogradov, the great mathematician, and urged the members to write to him. Ye. B. Dynkin reported on "Semisimple Subgroups of Semisimple Groups of Lie." O. A. Oleynik, "Second Boundary-Value Problem for the Elliptic

196T77

USSR/Mathematics - Mathematical Societies (Contd 1) Nov/Dec 51

Type Equation With Small Parameters in Its Higher Derivatives." I. M. Vinogradov was chosen as honorary member of the Society. Vice-Pres A. G. Kurosh read the note of the absent Pres Aleksandrov urging all members to underign the Appeal of the World-Wide Peace Council for conclusion of the Peace Pact. I. S. Gradshteyn gave his report "Application of the Theory of Stability by Liapunoff to the Theory of Differential Equations With Small Multipliers in the Derivatives" (extensive abstract is given). V. A. Rokhlin, "Homotopical Classification of Continuous Reflections of a (n+3)-Dimensional Sphere onto a n-Dimensional Sphere" (contents of this lecture published in "Dok Ak Nauk SSSR" Vol LXXX, No 4, 1951, and Vol LXXXI, No 1 1951.)

196T77