NAYMARK, M.A.

Continual analog of the Schur lemma and its application to the Plancherel formula for complex classical groups. Izv.AN SSSR. Ser.mat.20 no.1:3-16 Ja-F '56. (MLRA 9:4)

1.Predstavleno akademikom S.L.Sobolevym.
(Groups, Theory of)

NAYMARK, M.A.

SUBJECT	USSR/MATHEMATICS/Algebra CARD 1/1 PG - 853
AUTHOR	NAIMARK M.A.
TITLE	On irreducible iinear representations of the complete Lorentz group.
PERIODICAL	Doklady Akad.Nauk 112, 583-586 (1957) reviewed 6/1957

After Gel'fand and Jaglom have given formulas in infinitesimal form for the representations of the complete Lorentz group, now the author gives formulas in integral form. It is proved that the obtained representations are irreducible and pairwise non-equivalent and it is shown that every irreducible representation of the complete Lorentz group is equivalent to one of the obtained representations.

INSTITUTION: Physical-Technical Institute, Moscow.

16(1) PHASE I BOOK EXPLOITATION SOV/1857

Naymark, Mark Aronovich

Lineynyye predstavleniya gruppy Lorentsa (Linear Representations of the Lorentz Group) Moscow, Fizmatgiz, 1958. 376 p. 7,000 copies printed.

Ed.: D.P. Zhelobenko; Tech. Ed.: S.N. Akhlamov.

PURPOSE: This book is intended for theoretical physicists. The author's basic results and methods, which, although previously published elsewhere, are now presented systematically in this book, may be of interest to specialists in certain fields of mathematics. The book may also be used as a textbook on the general theory of group representations for those who have had university courses in analysis and analytic geometry.

COVERAGE: The author gives a systematic presentation of linear representations of proper and full groups. Completely irreducible representations of the proper Lorentz group in an infinitesimal form as well as spin representation are described. In addition, the theory of infinite dimensional representations of the proper Lorentz group in the form of integrals, the theory of characters, and the Plaucherel formula for the proper Lorentz group are presented. An exact statement of and a solution to the problem of the description to the accuracy of

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equivalence of all completely irreducible Lorentz groups are given. The book contains four chapters. The first two are of an introductory character, where fundamentals of a three-dimensional rotation group and of full and proper Lie groups are given. The general theory of the representation of groups is presented in the form which is most suitable for the discussion of the following chapters. Chapter III. is the most important and deals with the study of representations of the proper and full Lorentz group, which for the first time is given in detail. The last chapter is concerned with a theory of invariant equations which, although not completed, has many important applications. The author thanks I.M. Gel'fand, M.I. Girayev, D.P. Zhelobenko, and S.V. Formin for help in preparing the manuscript. There are 59 references: 43 Soviet, 13 English and 3 French.

TABLE OF CONTENTS:

Linear Representations(Cont.) SOV/1857

AVAILABLE: Library of Congress

LK/sfm
7-17-59

Card 9/9

20-119-5-8/59

AUTHOR: Naymark, M.A.

TITLE: On the Decomposition Into Irreducible Representations of the Tensorial Product of the Representations of the Principal Series of the Proper Lorenz Group (O razlozhenii tenzornogo proizvedeniya predstavleniy osnovnoy serii sobstvennoy gruppy Lorentsa na neprivodimyye predstavleniya)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol 119, Nr 5, pp 872-875 (USSR)

ABSTRACT: The author investigates the decomposition of the tensor product of infinite-dimensional representations of the principal series of the Lorenz group, where, as it is usual, instead of the representations of the Lorenz group itself, the author takes the representations of the group of matrices of second order being locally isomorphic to it, the determinant of which is 1. By the integral

$$f(z, \chi) = \int f(z_1, z_2) a(z_1, z_2, z, \chi) dz_1 dz_2$$

an isometric mapping $Sf(z_1, z_2) = f(z, \chi)$ of the space of complex functions of two variables is defined on a certain Hilbert space of measurable functions $f(z, \chi) = f(z, m, \sigma)$, where m and σ are the parameters of the representations of the principal series of the Lorenz group. By this mapping S the desired decomposition of

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On the Decomposition Into Irreducible Representations of the Tensorial Product of the Representations of the Principal Series of the Proper Lorenz Group 20-119-5-8/59

the tensor product of two representations is reached. There are 3 Soviet references.

PRESENTED: December 4, 1957, by A.N.Kolmogorov, Academician

SUBMITTED: December 2, 1957

Card 2/2

AUTHOR: Naymark, M.A. S07/20-121-4-5 '54

TITLE: On the Resolution of Irreducible Representations of the Fundamental Series of a Complex Unimodular Group of n-th Order with Respect to Representations of a Complex Unimodular Group of Second Order (O razlozhenii neprivodimykh predstavleniy osnovnoy serii kompleksnoy unimodulyarnoy gruppy n-go poryadka po predstavleniyam kompleksnoy unimodulyarnoy gruppy vtorogo poryadka)

PERIODICAL: Doklady Akademii nauk SSSR,1958,Vol 121,Nr 4,pp 590-593 (USSR)

ABSTRACT: Let A_n be the complex unimodular group of n-th order. The author uses his own results [Ref 1] and the results published together with Gel'fand [Ref 2,3] on the representations of the main series of complex unimodular groups, in order to obtain in the case $n = 3$ a representation of the A_n in form of a continuous sum of irreducible representations of the A_2.
There are 3 Soviet references.

PRESENTED: April 2, 1958, by S.L. Sobolev, Academician

SUBMITTED: March 31, 1958

Card 1/1

NAYMARK, M.A.

Decomposition of tensor products of irreducible representations of proper Lorentz's group into irreducible representations. Trudy Mosk.mat.ob-va 8:121-154 '59. (MIRA 13:2)
(Groups, Theory of)

Naymark, M.A.

16(0) PHASE I BOOK EXPLOITATION SOV/3177

Matematika v SSSR za sorok let, 1917-1957. tom 1: Obzornyye stat'i (Mathematics in the USSR for Forty Years, 1917-1957). Vol 1: Review Articles) Moscow, Fizmatgiz, 1959. 1002 p. 5,500 copies printed.

Eds: A. G. Kurosh, (Chief Ed.), V. I. Bityutskov, V. G. Boltyanskiy, Ye. B. Dynkin, G. Ye. Shilova, and A. P. Yushkevich; Ed. (Inside book): A. P. Lapko; Tech. Ed.: S. N. Akhlamov.

PURPOSE: This book is intended for mathematicians and historians of mathematics interested in Soviet contributions to the field.

COVERAGE: This book is Volume I of a major 2-volume work on the history of Soviet mathematics. Volume I surveys the chief contributions made by Soviet mathematicians during the period 1947-1957; Volume II will contain a bibliography of major works since 1917 and biographic sketches of some of the leading mathematicians. This work follows the tradition set by two earlier works: Matematika v SSSR za pyatnadtsat' let (Mathematics in the USSR for 15 Years) and Matematika v SSSR za tridtsat' let (Mathematics in the USSR for 30 Years). The book is divided into the major divisions of the field, i.e., algebra, topology, theory of probabilities, functional analysis, etc., and contributions and outstanding problems in each discussed. A listing of some 140C Soviet mathematicians is included with references to their contributions in the field.

16(1)
AUTHOR: Naymark, M.A.

SOV/20-125-6-5/61

TITLE: On the Decomposition Into Irreducible Representations of the Tensor Product of a Representation of the Principal Series and Representation of the Complementary Series of the Lorentz Group (O razlozhenii na neprivodimyye predstavleniya tenzornogo proizvedeniya predstavleniya osnovnoy serii i predstavleniya dopolnitel'noy serii sobstvennoy gruppy Lorentsa)

PERIODICAL: Doklady Akademii nauk SSSR,1959,Vol 125,Nr 6, pp 1196 - 1199 (USSR)

ABSTRACT: With the same methods and denotations as in [Ref 1] the author decomposes the tensor product of the representations of the principal series and of the complementary series of the Lorentz group into irreducible representations. Instead of the Lorentz group the author uses the group isomorphic to it of the matrices of second order with determinant = 1 . Numerous errors from former papers of the author [Ref 1,2] are corrected.

Card 1/2

On the Decomposition Into Irreducible Representations of the Tensor Product of a Representation of the Principal Series and Representation of the Complementary Series of the Lorentz Group SOV/20-125-6-5/6

There are 4 Soviet references.

ASSOCIATION: Moskovskiy fiziko-tekhnicheskiy institut (Moscow Physico-Technical Institute)

PRESENTED: January 8, 1959, by A.N. Kolmogorov, Academician

SUBMITTED: January 5, 1959

Card 2/2

NAYMARK, M.A.

Decomposition of tensor products of irreducible representations of a proper Lorentz group into irreducible representations. Trudy Mosk. mat. ob-va 9:237-282 '60. (MIRA 13:9)
(Groups, Theory of)

~~16(1)~~ 14.2000 14.4[illegible]

AUTHOR: Naymark, M.A.

SOV/20-130-2-5/69

TITLE: Resolution Into Irreducible Representations of a Tensor Product of two Representations of Lorentz Eigen Group Supplementary Series

PERIODICAL: Doklady Akademii nauk SSSR,1960,Vol 130,Nr 2, pp 261 - 264 (USSR)

ABSTRACT: The paper is a continuation and completion of the investigations [Ref 4 - 6] of the author on the decomposition of the tensor product of two irreducible unitary representations of the Lorenz eigen group into irreducible representations. In the present paper the author considers the last possible case, i.e. the tensor product $\chi_1 \times \chi_2$ of two representations χ_1 and χ_2 both belonging to the supplementary series. The author distinguishes the cases $\chi_1 + \chi_2 \neq 2$ and $\chi_1 + \chi_2 = 2$. The result is summarized in a theorem. The notations are those of [Ref 4,5] . I.M.

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Resolution Into Irreducible Representations of a Tensor Product of two Representations of Lorentz Eigen Group Supplementary Series SOV/20-130-2-5/69

Gel'fand is mentioned by the author.
There are 6 Soviet references.

ASSOCIATION: Moskovskiy fiziko-tekhnicheskiy institut (Moscow Physico-Technical Institute)

PRESENTED: September 17, 1959, by A.N. Kolmogorov, Academician

SUBMITTED: September 16, 1959

Card 2/2

NAYMARK, M.A.

Tensor product of the representations of Lorenz's characteristic group supplementary series. Dokl.AN SSSR 132 no.5:1027-1030 Je '60. (MIRA 13:6)

(Calculus of tensors)

88207

S/020/60/134/002/032/041XX
C 111/ C 333

16.2000

AUTHOR: Naymark, M. A.

TITLE: Factor-Representations of a Locally Compact Group

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 2, pp. 275-277

TEXT: Let G be a locally compact group which satisfies the second axiom of countability; a "representation U of G" is defined to be a continuous unitary representation $g \to U_g$ of the group G in the separable Hilbert space $\mathfrak{H}$. U is called factor-representation, if the weakly closed ring M generated by all U_g, $g \in G$ is a factor in the sense of von Neumann. If $\mathfrak{H} = \int \mathfrak{H}(\lambda)\, d^B\mu(\lambda)$ is the decomposition of $\mathfrak{H}$ with respect to the center Z of M, then U is decomposed into representations $U(\lambda)$ in $\mathfrak{H}(\lambda)$ which are factor-representations for almost all $\lambda \in \Lambda$. This decomposition is called canonical decomposition of the representation in factor-representations.

Theorem 1: Let $\mathfrak{H} = \int_\Lambda \mathfrak{H}(\lambda)\, d\mu(\lambda)$ and $U = \{U(\lambda)\}$ be the canonical decomposition of the representation U. Then there exists a set $\Lambda_0 \subset \Lambda$ of μ-measure zero so that the representations $U(\lambda)$ and $U(\lambda')$ are disjoint (see (Ref.3)) for all $\lambda, \lambda' \in \Lambda - \Lambda_0, \lambda \neq \lambda'$.

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Factor-Representations of a Locally Compact Group

Theorem 2: Assume that $\mathfrak{H} = \int_{\hat{A}} \mathfrak{H}(\lambda)\, d\mu(\lambda)$ and $U = \{ U(\lambda) \}$ is the canonical decomposition of the representation U of a group G of the type I. Then there exists a set $\Lambda_0 \subset \Lambda$ of μ-measure zero and measurable families $\mathfrak{H}_k(\lambda)$, k = 1,2,...., such that 1.) for $\lambda, \lambda' \in \Lambda - \Lambda_0$, $\lambda \neq \lambda'$, the representations $U(\lambda)$, and $U(\lambda')$ are multiples of nonequivalent, irreducible representations; 2.) $\mathfrak{H}(\lambda) = \Sigma_k \mathfrak{H}_k(\lambda)$ for $\lambda \in \Lambda - \Lambda_0$ 3.) $\mathfrak{H}_k(\lambda)$ is invariant under $U(\lambda)$ for $\lambda \in \Lambda_0$; 4.) if $\lambda \in \Lambda - \Lambda_0$ and $\mathfrak{H}_k(\lambda) \neq (0)$, then the restriction of $U(\lambda)$ on $\mathfrak{H}_k(\lambda)$ is irreducible.

Theorem 3: The representation U is the space $\mathfrak{H}$ is assumed to be the continuous sum of the representations $U(\lambda)$ in the spaces $\mathfrak{H}(\lambda)$ so that $\mathfrak{H} = \int \mathfrak{H}(\lambda)\, d\mu(\lambda)$, $U = \{ U(\lambda) \}$. Assume that there exists a set $\Lambda' \subset \Lambda$ of μ-measure zero such that all $U(\lambda)$ for $\lambda \in \Lambda - \Lambda'$ are pairwise quasi-equivalent (see (Ref.3)) factor-representations. Then U is also a factor-representation. If, moreover, all $U(\lambda)$ for $\lambda \in \Lambda - \Lambda'$ are factor-representations of the type I, then U is also of type I and, therefore, a finite or

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Factor-Representations of a Locally Compact Group

denumerable discrete sum of mutually equivalent irreducible representations.

Theorem 4: Every continuous positive-definite function $\varphi(g)$ on the group G of the type I is representable as

$$\varphi(g) = \int_{\Lambda} \left[\sum_{k} \varphi_k(g,\lambda) \right] d\mu(\lambda),$$ where $\varphi_k(g,\lambda)$ are elementary continuous positive-definite functions of g and measurable functions of λ, where

1.) $\varphi_k(g,\lambda)$ and $\varphi_f(g,\lambda)$ define equivalent irreducible representations;

2.) $\varphi_k(g,\lambda)$ and $\varphi_f(g,\lambda')$ for $\lambda \neq \lambda'$ define nonequivalent irreducible representations.

There are 7 references: 1 Soviet, 2 French, 1 Hungarian and 3 American.

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Factor-Representations of a Locally Compact Group

[Abstracter's note: (Ref.3) is a paper of G. N. Mackey in Ann. Math., 1953, Vol. 58, No. 2, 193].

ASSOCIATION: Moskovskiy fiziko-tekhnicheskiy institut (Moscow Physicotechnical Institute)

PRESENTED: May 6, 1960, by A. N. Kolmogorov, Academician

SUBMITTED: April 7, 1960

Card 4/4

NAYMARK, M.A.

Expansion of an unitary representation of locally compact group into factor-representations. Sib. mat. zhur. 2 no.1:89-99 Ja-F '61. (MIRA 14:5)
(Groups, Theory of)

NAYMARK, M.A.

Expansion of the tensor product of irreducible representations of the Lorentz group into irreducible representations. Part 3. Case of the tensor product of representations of the complementary series. Trudy Mo[illegible]t. ob-va 10:181-216 '61.
(MIRA 14:9)

(Hilbert space) (Calculus of tensors)

LYUSTERNIK, L.A.; MEN'SHOV, D.Ye.; NAYMARK, M.A.; UL'YANOV, P.L.

Abram Iezekiilovich Plesner; on his 60th birthday. Usp. mat. nauk 16 no.1:213-218 Ja-F '61. (MIRA 14:6)
(Plesner, Abram Iezekiilovich, 1900—)

NAYMARK, M.A.

Isomorphic representation of rings and groups. Dokl. AN SSSR 137 no.2:276-281 Mr '61. (MIRA 14:2)

1. Predstavleno akademikom A.N.Kolmogorovym.
(Rings (Mathematics))

NAYMARK, M. A.

"On factor representations of allocally compact group"

report submitted at the Intl Conf of Mathematics, Stockholm, Sweden, 15-22 Aug 62

NAYM/RK, M.A. (Moscow)

On commuting unitary operators in spaces with indefinite metric. Acta math Szeged 24 no.3/4:177-189 '63.

1. Submitted February 28, 1963.

NAIMARK, M.A.

Structure of factor representations of a locally compact group.
Dokl.AN SSSR 148 no.4:775-778 F '63. (MIRA 16:4)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR.
Predstavleno akademikom L.S.Pontryaginym.
(Groups, Theory of)

NAYMARK, M.A.

Unitary representations of a Lorentz group in a π_k space. Dokl. AN SSSR 152 no.5:1064-1067 O '63. (MIRA 16:12)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR.
Predstavleno akademikom L.S.Pontryaginym.

NAYMARK, M. A.

Unitary representations of solvable groups in spaces with indefinite metrics. Izv. AN SSSR. Ser. mat. 27 no.5:1181-1185 S-O '63. (MIRA 16:11)

NAIMARK, M.A.

Unitary permutation operators in a Π_χ space. Dokl. AN SSSR 149 no.6:1261-1263 Ap '63. (MIRA 16:7)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR. Predstavleno akademikom L.S.Pontryaginym.
(Operators (Mathematics)) (Hilbert space)

NAYMARK, M.A. (Moskva)

Unitary representations of a Lorentz group in spaces with indefinite metric. Mat. sbor. 65 no.2:198-211 O '64. (MIRA 17:11)

NAYMARK, M.A.

Commutative algebras of operators in II_1 space. Dokl. AN SSSR 156 no. 4:734-737 Je '64. (MIRA 17:6)

1. Matematicheskiy institut im. V.A. Steklova AN SSSR. Predstavleno akademikom P.S.Novikovym.

NAYMARK, M.A. (Moscow)

Commutative algebras of operators in the Π_1 space. Rev math Roum 9 no.6:499-528 '64.

KUDRYAVTSEV, L.D., doktor fiz.-matem.nauk; NAYMARK, M.A., doktor fiz.-matem. nauk

Conference on functional analysis, the theory of approximations and operators in the German Democratic Republic. Vest. AN SSSR 34 no.9:101 S '64. (MIRA 17:10)

KUDRYAVTSEV, L.D., prof.; NAYMARK, M.A., prof.

Colloquium on linear spaces and linear operators. Vest. AN SSSR 34 no.12:64 D '64 (MIRA 18:1)

NAIMARK, M.A.

Structure of unitary representations of locally bicompact groups in a Hilbert space. Izv. AN SSSR. Ser. mat. 29 no.3:689-700 '65. (MIRA 18:6)

NAYMARK, M.A.

Conditions for unitary equivalence of commutative symmetrical algebras in II_k space. Dokl. AN SSSR 160 no.6:1257-1260 F '65. (MIRA 18:2)

1. Matematicheskiy institut im. V.A. Steklova AN SSSR. Submitted September 21, 1964.

NAYMARK, M.A.

Commutative algebras of operators in a Π_k space. Dokl. AN SSSR 161 no.4:767-770 Ap '65. (MIRA 18:5)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR. Submitted September 7, 1964.

NAYMARK, M.A.

Unitary representations of locally bicompact groups in II_1 space.
Dokl. AN SSSR 160 no.2:281-283 Ja '65.

(MIRA 18:2)

ACC NR: AP7011843 SOURCE CODE: UR/0038/66/030/006/1229/1256

AUTHOR: Naymark, M. A.

ORG: none

TITLE: Degenerate operator algebras in pontryagin space pi sub K

SOURCE: AN SSSR. Izvestiya. Seriya matematicheskaya, v. 30, no. 6, 1966, 1229-1256

TOPIC TAGS: algebra, mathematic space

SUB CODE: 12

ABSTRACT: Algebra R is called degenerate if there exist such a homomorphism $A \to \lambda(A)$ of algebra R in the field of complex numbers and such a natural number p that $(A - \lambda(A)1)^p = 0$ for all $A \in R$. The article includes a description of commutative, symmetric, degenerate algebras - to within equivalence - of bounded linear operators in the space Π_κ. Orig. art. has: 5 formulas.

[JPRS: 40,423]

Card 1/1

0232 0445

NAYMARK, M.I.

Let us put an end to interruptions in processing in the clothing industry. Leg. prom. 15 no.11:15-16 N '55. (MLRA 9:2)
(Clothing industry)

NAYMARK, M.I.

NAYMARK, M.I.

Coordination of multiple-style dressmaking processes in the output stages. Leg. prom. 18 no.1:45-46 Ja '58. (MIRA 11:2)
(Dressmaking)

GUMILEVSKAYA, S.A.; VILENKINA, A.M.; NAYMARK, M.I.

Organizing the start and accounting in multiple-pattern production processes. Leg. prom. 18 no.3:8-9 Mr '58. (MIRA 11:4)
(Dressmaking)

NAYMARK, M.I. (Moskva)

Chart for the distribution of operations among replacements for absent workers. Shvein.prom. no.5:11-15 Jl-Ag [i.e.S-O] '61.
(MIRA 14:10)

(Clothing industry---Management)

1. NAYMARK, N. A.

2. USSR (600)

"Vibration of a Thin Resilient Layer Resting on a Resilient Semispace Due to the Action of a concentrated Harmonic Force Applied to the Layer's Free Surface." Trudy seysmologicheskogo Instituta, No. 127, 1948 (1-15)

9. Meteorologiya i Gidrologiya, No. 3, 1949. [redacted] Report U-2551. 30 Oct 52

KUKIN, G.N.; MAYMARK, N.I.

Using the electrical analogies method for studying the deformations of textile fibers. Report No.1. Izv.vys.uchet. zav.; tekh.tekst.prom. no.5:12-19 '61. (MIRA 14:11)

1. Moskovskiy tekstil'nyy institut.
(Deformations (Mechanics))—Electromechanical analogies)
(Textile fibers, Synthetic)

NAYMARK, N.I.

Some peculiarities of the deformation of cotton yarn.

Report presented at the 13th Conference on high-molecular compounds
Moscow, 8-11 Oct 62

NAYMARK, N. I.

Use of electric analogies for studying the deformation of textile fibers. Izv. vys. uchab. zav.; tekh. tekst. prom. no.4:99-104 '62. (MIRA 15:10)

1. Moskovskiy tekstil'nyy institut.

(Yarn—Testing) (Electromechanical analogies)

L 63576-65 EWP(j)/EWT(m)/T Pc-4 RM

ACCESSION NR: AP5013982 UR/0183/65/000/003/0038/0040

677.464.1

TOPIC TAGS: polymer, polymeric structure, polymer property, triacetate fiber, structure analysis, superlattice, ultrasonic grinding

ABSTRACT: The relation of structure to physico-mechanical properties and the

ACCESSION NR: AP5013982

TEREKHOV, V.S., arkhitektor; MAYMARK, S.I., arkhitektor

Standardizing storehouses of ore preparation enterprises of ferrous metallurgy. Prom. stroi. 40 [i.e. 41] no.6:12-16 Je '63. (MIRA 16:10)

[redacted], V.I., arkhitektor

[redacted] types of reliable warehouses for mineral fertilizers. [illegible].
Stroi. 42 no. [illegible] 3 '64.

SKLYAROV, Yuriy Andreyevich; NAYMARK, S.L., red.

[Tyumen' builds] Tiumen' stroitsia. Tiumen', Tiumenskoe knizhnoe izd-vo, 1963. 34 p. (MIRA 17:4)

NAYMARK, V.Ye., kand.fiz.-mat.nauk; GUREVICH, Ya.B., kand.tekhn.nauk

Plastic properties of Kh25N20 modified steel castings. Prob. metalloved. i fiz. met. no.4:623-638 '55. (MIRA 11:4)
(Steel castings) (Plasticity)

GUREVICH, Yu.B., kand.tekhn.nauk; NAYMARK, V.Ye., kand.fiz.-mat.nauk

Deformability of Kh25N20 steel castings. Probl. metalloved. i fiz. met. no.4:639-647 '55. (MIRA 11:4)
(Steel castings) (Rolling (Metalwork)

NAYMARK, Ye.A.; TRET'YAK, L.K.

Treatment with synthomycetin of dysentery and infant toxicosis. Vopr. pediat. 20 no.6:18-20 Nov-Dec 1952. (CIML 23:4)

1. Assistant, Candidate Medical Sciences for Naymark; Assistant for Tret'yak.

POKOMAREVA, V.N.; MAYMARK, Ye.A., kand.med.nauk

Treatment by stages for dysentery patients under conditions of a children's hospital. Vop. okh. mat. i det. 5 no. 2:74-78 Mr-Ap '60. (MIRA 13:10)

1. Iz Detskoy infektsionnoy bol'nitsy No. 11 Oktyabr'skogo rayona Moskvy (glavnyy vrach V.F. Pershina).
(DYSENTERY)

KAPLAN, G.Sh.; BELUKHIN, V.G.; NAYMARK, Yu.Yu.

Determination of the optimum geometry of a cutting tool securing chip breaking. Trudy Stud. nauch. ob-va LIEI no.3: 39-48 '59. (MIRA 16:10)

NAYMENKO, M.

"The Rocket Artillery of the Russian Army," In the collection: The History of Russian Military-Technical Ideas. M. War Publ. House, 1952, pp. 64-87

NAYMIS, I.

Zabolevaniya zhivotnykh ot nepravil'nogo kormleniya i plokhikh kormov (Diseases of Animals Caused by Improper Feeding and Poor Feeds), Vil'nyus. Gospolitnauchizdat. 1950. 44 pages with illustrations. In the Lithuanian language.

U-5235

NAYMUSHIN, K. I.

Extensive repair of railroad passenger cars without uncoupling. Moskva, Gos. transp. zhel-dor. izd-vo, 1953. 26 p. (54-32098)

TF455.N3

KHADZHIDEKOV, G.; MAYMOV, G.

Maffucci's syndrome. Suvr. med. 14 no.4:69-76 '63.

(DYSCHONDROPLASIA) (HEMANGIOMA, CAVERNOUS)

NAYMOV, G. F.

"The Effect of Vegetative Propagation on the Vitality and Viability of Plants (For Instance, Kok-saghiz)." Cand Agr Sci, Khar'kov Agricultural Inst, Khar'kov, 1954. (RZhBiol, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13)
SO: Sum. No. 598, 29 Jul 55

NAYMOV, N. A.

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

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

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

NAYMOVA, A. S.

PA 149T31

USSR/Chemistry - Acetic Acid System Aug 49
Physics - Electroconductivity of
Acetic Acid

"Electroconductivity and Viscosity of the System Acetic Acid-Monochloroacetic Acid, IV," A. S. Naymova, Lab of Phys Chem, Tomsk Polytech Inst imeni S. M. Kirov, 7½ pp

"Zhur Obshch Khim" Vol XIX, No 8

Investigated electroconductivity at 40, 60, 75° C, revealing a minimum on temperature curve for coefficient of electroconductivity when molecular ratios of components were 1:1. Studied viscosity at these temperatures also, and derived an S-shaped [redacted] 149T31

USSR/Chemistry - Acetic Acid System Aug 49
(Contd)

curve, indicating formation of a compound whose viscosity is intermediate between those of its components. Submitted 3 Apr 48.

149T31

ABULADZE, M.A.; ANDRUSYCHUK, Yu.A., mostovoy master; NAYMUSHIN, A.A., starshiy dorozhnyy master (Sevastopol'). KRIUSHIN, I.A., dorozhnyy master (stantsiya Adadym Krasnoyarskoy dorogi)

Letters to the editor. Put' i put.khoz. no.12:35-36 D '58. (MIRA 12:1)

1. Nachal'nik rel'sosvarochnogo poyezda, stantsiya Orsha Belorusskoy dorogi (for Abuladze).
(Railroads--Track)

NAYMUSHIN, A.A., starshiy dorozhnyy master (g.Sevastopol')

Track inspector Skiba. Put' i put. khoz. 5 no.3:14 Mr '61.
(MIRA 14:3)

(Railroads—Employees)

NAYMUSHIN, A.S.

Remodeling a gas fractionating unit. Nefteper. i neftekhim.
no.7:43-46 '63 (MIRA 17:7)

1. Permskiy neftepererabatyvayushchiy zavod.

SOV/98-59-8-2/33

14(10,11), 18(5)

AUTHORS: Naymushin, I., Head, Gindin, A., Chief Engineer, Shergin, B., Secretary of the Party Committee, Georgiyevskiy, S., Secretary

TITLE: Open Letter From the Workers on the Bratsk Construction Project

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 8, pp 3-4 (USSR)

ABSTRACT: As mentioned in the opening article, this is an open letter sent to all construction sites, industrial undertakings, technical institutes, and to the workers on the Krasnoyarsk GES project in particular. Based on the resolutions of the June Plenum of the Central Committee of the Soviet Communist Party, and born of a desire to hasten the fulfillment of the plan, the letter calls for help to be extended by more experienced teams to those in a less fortunate position. In particular, it calls for aid from the workers of the town of Angarsk, the Glavmosstroy and the Glavmospromstroymaterialov of the Mosgorispolkom (Moscow City Executive Committee) in this field of housing construction on the Bratsk site, admitting its inexperience in this sphere; from the Krivoy Rog ore-mining team in the construction of the Korshunov

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Open Letter From the Workers on the Bratsk Construction Project

iron-ore combine (output 12 million tons a year); from timber combines, in order to help with the construction of the largest wood-processing enterprise in the USSR (output 4 million cubic meters a year); and from the Academy of Construction and Architecture of the Ukrainian SSR in the field of the removal of earth and rock by means of explosives. In return, the Bratsk workers on the Padun Falls offer their help and experience to all who need it, especially to the workers on the Krasnoyarsk site on the Yenisey, who lag behind the former somewhat in the fulfillment of their part of the plan to provide a network of power stations in Siberia.

ASSOCIATION: Bratskgesstroy (Bratsk Construction Project) (Naymushin); Bratskiy gorkom KPSS (Bratsk Town Committee, CPSU (Georgiyevskiy)

TOLKACHEV, A.V., dots.; NAYMUSHIN, I.G., inzh.; KRAFT, G.A.

Operational experience of the TE2 diesel locomotive in passenger traffic. Zhel. dor. transp. 41 no.5:64 My '59.
(MIRA 12:7)

1.Zavsduyushchiy dinamometricheskim vagonom Tashkentskogo instituta inzhenerov zheleznodorozhnogo transporta (for Kraft).
(Diesel locomotives) (Railroads—Passenger traffic)

NAYMUSHIN, I.

First units of the Bratsk Hydroelectric Power Station are about to go into operation. Na stroi. Ros. no.10:4-7 O '61. (MIRA 14:11)

1. Nachal'nik Bratskoy gidroelektrostantsii.
(Bratsk Hydroelectric Power Station)

ZASYAD'KO, A.F.; KUCHERENKO, V.A.; PAVLENKO, A.S.; GRISHMANOV, I.A.; FROLOV, V.S.; SHASHKOV, Z.A.; YEFREMOV, M.T.; SMIRNOV, M.S.; CHIZHOV, D.G.; NOVIKOV, I.T.; NOSOV, R.P.; ASKOCHENSKIY, A.N.; NEKRASOV, A.M.; LAVRENENKO, K.D.; TARASOV, N.Ya.; GABDANK, K.A.; LEVIN, I.A.; GINZBURG, S.Z.; ALEKSANDROV, A.P.; KOMZIN, I.V.; OZEROV, I.N.; SOSNIN, L.A.; BELYAKOV, A.A.; NAYMUSHIN, I.I.; INYUSHIN, M.V.; ACHKASOV, D.I.; RUSSO, G.A.; DROBYSHEV, A.I.; PLATONOV, N.A.; ZHIMERIN, D.G.; PROMYSLOV, V.F.; ERISTOV, V.S.; SAPOZHNIKOV, F.V.; KASATKIN, M.V.; ALEKSANDROV, M.Ya.; KOTILEVSKIY, D.G.

Fedor Georgievich Loginov; obituary. Elek.sta. 29 no.8:1-2 Ag '58. (MIRA 11:11)

(Loginov, Fedor Georgievich, 1900-1958)

NAYMUSHIN, K.I.

NAYMUSHIN, K.I.; SHCHERBAKOV, V.F., redaktor.

[Extensive repair of railroad passenger cars without uncoupling] Ukrupnennyy bezotstsepochnyy remont passazhirskikh vagonov. Moskva, Gos. transp. zhel-dor. izd-vo, 1953. 26 p. (MLRA 7:4)
(Railroads--Passenger cars--Maintenance and repair)

MAMUSHIN, K.I., (g. Sverdlovsk)

Repairing passenger cars without uncoupling. Zhel.dor.transp. 37 no.1:76-77 Ja '56. (MLRA 9:3)

1. Nachl'nik vagonnogo uchastka.
(Railroads--Cars--Maintenance and repair)

L 6962-66 EWT(1)/FCS(k)/T WR

ACC NR: AP5020366 SOURCE CODE: UR/0141/65/008/003/0540/0546

45

AUTHOR: Naymushin, M. P. 44

43

ORG: Moscow Power Engineering Institute 44 (Moskovskiy energeticheskiy institut) 6

TITLE: The excitation of a cylinder with variable surface impedance

SOURCE: IVUZ. Radiofizika, v. 8, no. 3, 1965, 540-546

TOPIC TAGS: electric impedance, numeric integration, cylindric flow, antenna configuration, waveguide antenna 25B, 44

ABSTRACT: A two-dimensional problem associated with the excitation of a circular cylinder with a surface impedance varying along the circumference of the cylinder is considered. The integral equation for the surface density of the electric or magnetic current is solved by the numerical method of Krylov-Bogolyubov [L. V. Kantorovich, V. I. Krylov, Priblizhennyye metody vysshego analiza, *GIFML*, M-L., 1962]. A digital computer used this method to produce the results given in the figures. In Fig. 1, the antenna is placed on an ideally conducting cylinder and excited by a longitudinal slit. The current phases for the various cases are al-

UDC: 621.396.671

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ACC NR: AP5020316

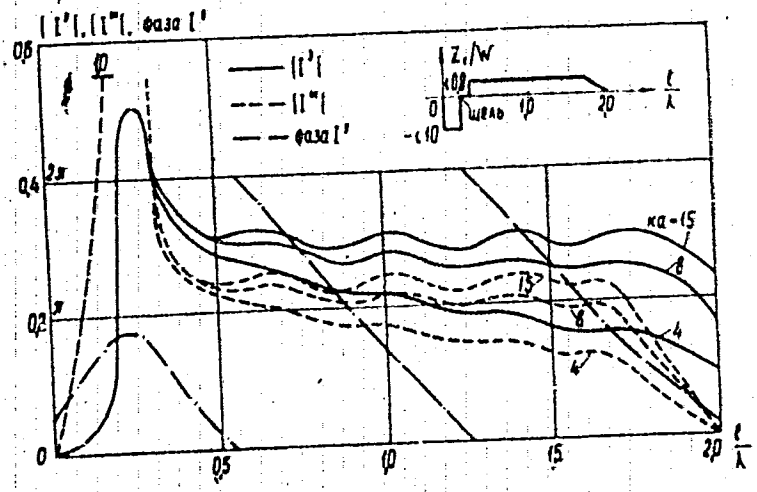

Fig. 1. Distribution of electric and magnetic current density along the antenna.

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L 6967-66

ACC NR: AP5020363

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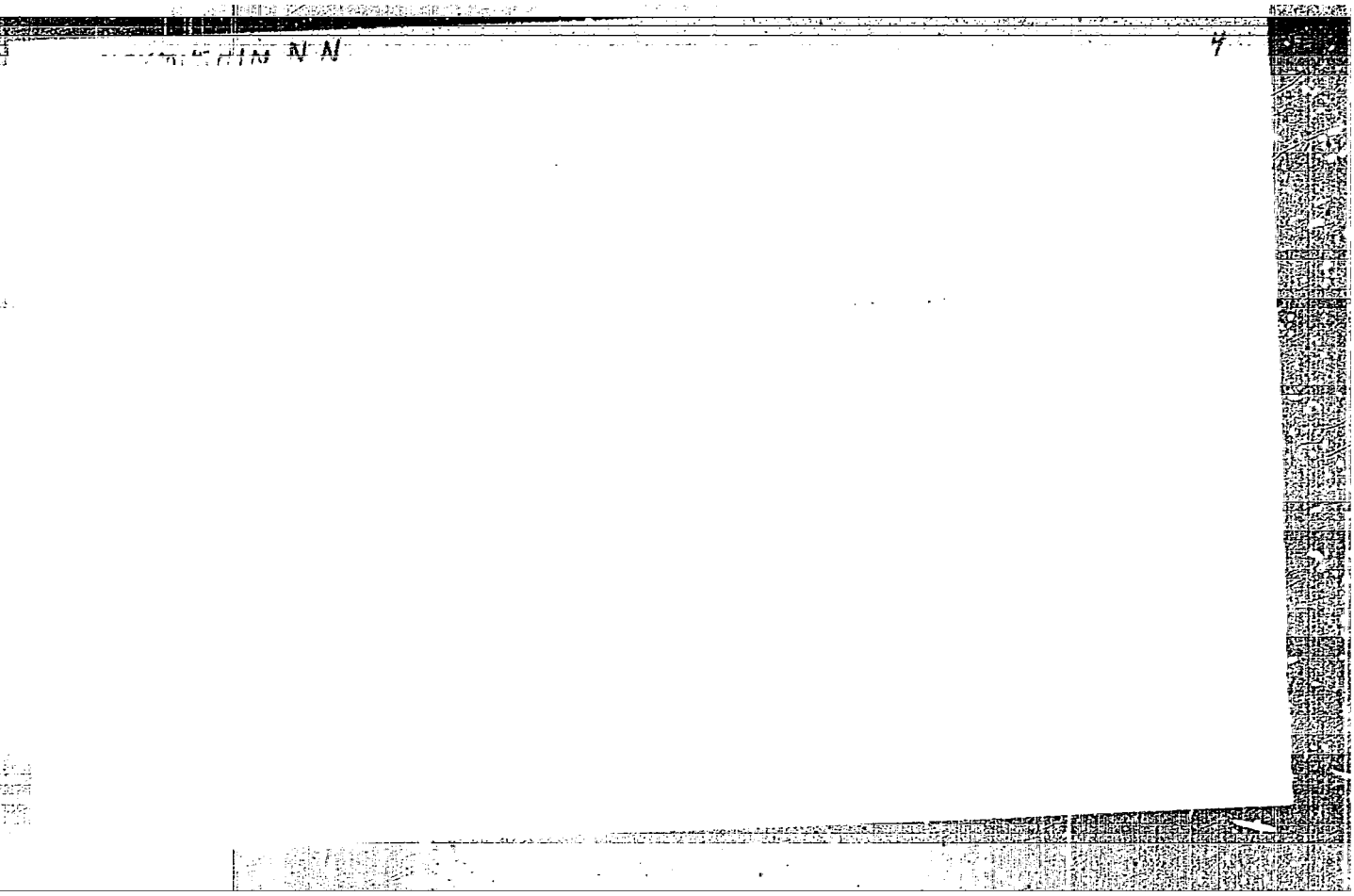
most identical. The impedance distribution is the same for all antennas. The region with the capacitive reactance situated behind the slit serves the role of a reflector and absorbs the source radiation in the reverse direction. A region with inductive reactances is situated on the opposite side of the slip. The linear variation in the phase shows that the current is of the traveling wave type. This can also be observed from the small oscillations and the value of the current along the antenna. Due to the discontinuity in the surface wave, radiation takes place along the entire length of the antenna and the amplitude of the traveling wave is decreased. A directional diagram shows that the bending of the antenna produces an increase in the radiation pattern minima and an extension of the principal lobe. The current distribution on the antenna radiation pattern covering the entire circumference of the cylinder is shown. In this case while a large part of the cylinder impedance has a constant value near the slit, the value varies and sets up a traveling wave along the circumference of the cylinder. The traveling wave attenuates very little after passing over the cylinder due to the high value of impedance and the relatively small curvature. In this case the radiation pattern also follows approximately the law of the attenuating traveling wave bud does so with greater nonuniformity produced by the natural radiation of the slit. "The author expresses his deep gratitude to G. T. Markov for supervising the work." Orig. art. has: 11 equations, 4 figures.

SUB CODE: EM/ SUBM DATE: 07Sep64/ ORIG REF: 003/ OTH REF: 002

Card 3/3 nda



BRODSKIY, A.M.; LAVROVSKIY, K.P.; NAYMUSHIN, N.N.; TITKOV, V.B.; FILATOVA, Ye.D.

Chromatographic analysis of mixtures of alkylenes and diolefins. Khim. i tekh.topl. i masel 4 no.3:30-32 Mr '59. (MIRA 12:4)

1. Institut nefti AN SSSR.
(Chromatographic analysis) (Olefins)

KALINENKO, R.A.; NAYMUSHIN, N.N.

Gas-liquid chromatographic analysis of complex mixtures of oxygen-compounds. Neftekhimiia 1 no.1:117-120 Ja-F '61. (MIRA 15:2)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Chromatographic analysis) (Oxygen compounds)

ANPILOGOV, I., elektrosvarshchik; NAYMUSHIN, P.; CHISTOV, S., inzh.; KURBANGALEYEV, A.; TRET'YACHENKO, B.

Worker correspondents of the periodical of the All-Union Central Council of Trade Unions "Okhrana truda i sotsial'noe strakhovanie" make a surprise inspection. Okhr.truda i sots. strakh. 3 no.6:46-50 Je '60. (MIRA 13:7)

1. Reydovaya brigada zhurnala "Okhrana truda i sotsial'noye strakhovaniye" (for all). 2. Ufimskiy neftepererabatyvayushchiy zavod (for Anpilogov). 3. Otvetstvennyy sekretar' gazety "Neftepererabotchik"(for Naymushin). 4. Tekhnicheskiy inspektor oblastnogo soveta profsoyuzov Bashkirskogo sovnarkhoza (for Kurbangaleyev). 5. Spetsial'nyy korrespondent zhurnala "Okhrana truda i sotsial'noye strakhovaniye" (for Tret'yachenko).
(Bashkiria--Industrial hygiene)

NAYMUSHIN, P.A.

Operations at the Novoufimka Petroleum Refinery. Neftepер. i neftekhim. no. 4:3-6 '64. (MIRA 17:5)

1. Novo-Ufimskiy neftepererabatyvayushchiy zavod.

5.2620

69022

AUTHORS: Toropova, V. F., Naymushina, K. V.

S/078/60/005/04/017/040
B004/B007

TITLE: Polarographic Investigation of the Complex Compounds of Cadmium With Thiosemicarbazide and Semicarbazide

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 4, pp 874 - 878 (USSR)

ABSTRACT: In this paper the investigations of the thiosemicarbazide complexes of mercury and silver carried out in reference 1 were extended to cadmium. The investigation was carried out by means of the polarograph of the Gintsvetmet (Gosudarstvennyy institut po tsvetnym metallam - State Institute of Nonferrous Metals) on a dropping mercury electrode. For measuring the pH an LP-5 tube-potentiometer was used. Table 1 gives the measured half-wave potentials of Cd^{2+} in the presence of thiosemicarbazide at 25°. Figure 1 shows the linear dependence of the half-wave potential on the logarithm of thiosemicarbazide concentration. The angular coefficient of the straight line is 0.064. The solution therefore contains complex ions with the coordinate number 2: $[Cd(TS)_2]^{2+}$ (TS = $SC^{-NHNH_2}_{\backslash NH_2}$). The instability constant was cal-

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culated as being 5.5± 0.15. In figure 2 the dependence of the stability of the cadmium-thiosemicarbazide-complex on pH is shown. The complex is stable between pH 5 - 7. With pH<1.2 hydrazine hydrogen does not seem to participate in the formation of the complex. The authors therefore assume a similarity with the thiourea complex of cadmium in this region, and compare the half-wave potentials of these two compounds in table 2. In table 3 the dissociation constants of thiosemicarbazide at different pH are given. The cadmium semicarbazide complexes were investigated in a similar manner: Table 4: Half-wave potentials of Cd^{2+} in the presence of semicarbazide, figure 3: Dependence of the half-wave potential on the concentration of semicarbazide. Herefrom the existence of the complex $\left[Cd(Sem)_2\right]^{2+}$ is proved (Sem = $OC\begin{matrix}\nearrow NHNH_2\\ \searrow NH_2\end{matrix}$), the instability constant of which was calculated to be 5.3±0.15. Figure 4 shows the influence of pH on the half-wave potential. The optimum range for the existence of the semicarbazide complex is between pH 6 - 7. In table 5

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Polarographic Investigation of the Complex Compounds of Cadmium With Thiosemicarbazide and Semicarbazide

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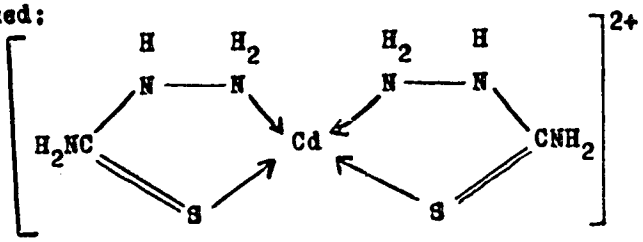
the authors give the instability constants of the CdX_2^{2+}-complexes for X = thiourea, thiosemicarbazide, and semicarbazide. Thiosemicarbazide is bound to cadmium both by means of hydrazine nitrogen and also by sulfur. This is proved by the complex formation with semicarbazide on the one hand and with thiourea on the other. For the thiosemicarbazide compler of cadmium the following cylindrical structure is therefore assumed:



There are 4 figures, 5 tables, and 4 references, 2 of which are Soviet.

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69022

Polarographic Investigation of the Complex Compounds of Cadmium With Thiosemicarbazide and Semicarbazide

S/078/60/005/04/017/040
E004/E007

ASSOCIATION: Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina (Kazan' State University imeni V. I. Ul'yanov-Lenin)

SUBMITTED: November 5, 1958

Card 4/4

Freydenson, Ye. Z.; Rabinovich, D. M.; Vinokurov, I. Ya.; Loshkina, N.A.;
[illegible], A. F.; Freydenson, Ya. Ye

[illegible] and low alloy

steel sheets and sections

Stal', no. 6 1965. [illegible]

[illegible] alloy steel, sheet steel,
[illegible]

1/2

L 53978-65
ACCESSION NR: AP5014866

[illegible] equipment. In the spray installation the required level of properties [illegible]

[illegible] without detriment to plastic properties and impact toughness in the presence of negative

over the axes of the metal is of special importance. Orig. art. has: 4 figures,

NAYMUSHINA, L. and TETERNIK, D.

"An experiment with disinfection of wool in the process of its first processing (washing)."

SO: Vet. 26 (4) 1949, p. 36

MAIKUSHINA, L.Ye., nauchnyy sotrudnik

New method for examining dry salted and wet salted hides and furs by the precipitation reaction. Trudy VNIIVSE 12:237-252 '57. (MIRA 11:12)

1. Laboratoriya sanitarii i deratizatsii Vsesoyuznogo nauchno-issledovatel'skogo instituta veterinarnoy sanitarii i ektoparazitologii.

(Hides and skins) (Anthrax)

MAYMUSHINA, L.Ye., nauchnyy sotrudnik

Thirty years' experience in using precipitating anthrax serum for examining hides and furs. Trudy VNIIVSE 12: 253-264 '57. (MIRA 11:12)

1. Laboratoriya sanitarii i deratizatsii Vsesoyuznogo nauchno-issledovatel'skogo instituta veterinarnoy sanitarii i ektoparazitologii.
(Anthrax) (Hides and skins)

NAUMUSHINA, L. Ye., nauchnyy sotrudnik

Effect of insecticides and antiseptics used in preserving hides and furs on the precipitation reaction. Trudy VNIIVSE 13:77-85 '58. (MIRA 11:12)
(Anthrax) (Hides and skins--Disinfection) (Agricultural chemicals)

NAYMUSHINA, L. Ye., Cand of Vet Sci -- (diss) "Reaction of Precipitation During the Investigation of Skin-Fur Raw Products by Salt Concentrates," Moscow, 1959, 18 pp (All-Union Institute of Experimental Veterinary Medicine, VASKhNIL) (KL, 5-60, 129)