ACC NR: AP7005397

sults show only slight differences in the red hardness of dispersion-hardened alloys as determined from hardness measurements in the cold state after heating to 700-750°C (2-3 HRC units). At the same time, the alloys differ considerably with respect to hot hardness: for instance V27K25 and V20M7K25 show a hardness of 400-430 HV at 750°C while V27K25G4 and V27K25N3 alloys show a hardness at this same temperature of only 170-190 kg/mm^2. A direct relationship was observed between the hot hardness and the cutting properties of the alloys. Machining tests using tools made from the various alloys for continuous turning of 1Kh18N9T steel at a speed of 33 mm/min and a feed rate of 0.3 mm/rev taking a cut of 1 mm gave stabilities of 18, 20, 5, 3 and 3 minutes for V27K25, V20M7K25, V27K25N3 and V27K25G4 alloys and R18 high-speed steel respectively. With continuous turning of 30Kh10G10 steel, the stability of V20M7K25 and V27K25 alloys was 20 times higher than that of V27K25G4 and V27K25N3 alloys and R18 steel. The discrepancies between hardness and cutting properties indicate that the temperature for beginning of the $\alpha \rightarrow \gamma$-transformation in V27K25 and V20M7K25 alloys is 920-910°C, while the corresponding temperature for V27K25G4 and V27K25N3 is 750-770°C. This conclusion is confirmed by measurements of resistivity and coercive force. Orig. art. has: 2 figures, 2 tables.

SUB CODE: 11/ SUBM DATE: 18Feb66/ ORIG REF: 03

Card 2/2

OKSENGENDLER, G.M. [deceased]; LOZINSKIY, M.O.

Thioindigoid dyes from ethylbenzene, isopropylbenzene, and tert-butylbenzene. Ukr.khim.zhur. 25 no.1:95-98 '59. (MIRA 12:4)

1. Nauchno-issledovatel'skiy institut poluproduktov i krasiteley im. K.Ye. Voroshilova, filial v g. Rubezhnoye.
(Dyes) (Benzene)

LOZINSKIY, M.O.; PEL'KIS, P.S.

1,5-Diaryl-3-haloformazans. Part 1: Synthesis of mono- and dihalo-substituted derivatives of 1,5-diphenyl-3-chloroformazan. Zhur. ob. khim.. 30 no.12:4002-4005 D '60. (MIRA 13:12)

1. Institut organicheskoy khimii Akademii Nauk Ukrainskoy SSR.
(Formazan)

LOZINSKIY, M.O. [Lozyns'kyi, M.O.]; PEL'KIS, P.S.

On the synthesis of arylazochloracetic acids. Dop.AN URSR no.4:508-510 '61. (MIRA 14:6)

1. Institut organicheskoy khimii AN USSR. Predstavleno akademikom AN USSR A.I. Kiprianovym.

(Acetic acid)

LOZINSKIY, M.O.; PEL'KIS, P.S.

Synthesis of some symmetrical derivatives of 1,5-diphenyl-3-chloroformazan. Ukr.khim.zhur. 27 no.5:667-669 '61. (MIRA 14:9)

1. Institut organicheskoy khimii AN USSR.
(Formazan)

LOZINSKIY, M.O.; PEL'KIS, P.S.

1, 5-Diaryl-3-haloformazan series. Part 2: Synthesis of arylazo-chloracetic acids. Zhur.ob.khim. 31 no.5:1621-1624 My '61. (MIRA 14:5)

1. Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR.
(Acetic acid) (Formazans)

LOZINSKIY, M.O.; PEL'KIS, P.S.

1-5-Diaryl-3-haloformazan series. Part 3: Reaction of arylazochloroacetic acids with nucleophilic agents. Zhur. ob.khim. 32 no.2:526-531 F '62. (MIRA 15:2)

1. Institut organicheskoy khimii AN Ukrainskoy SSR.
(Acetic acid)
(Ammonia)

LOZINSKIY, M.O.; PEL'KIS, P.S.

Asymmetric substituted 1,5-diphenyl-3-chloroformazan and their reaction with ammonia and morpholine. Ukr. khim. zhur. 29 no.4:414-418 '63. (MIRA 16:6)

1. Institut organicheskoy khimii AN UkrSSR.
(Formazan) (Ammonia) (Morpholine)

LOZINSKIY, M. O.; PEL'KIS, P. S.

1,5-Diaryl-3-haloformazans. Part 4: Reaction of substituted 1,5-diphenyl-3-chloroformazan with nucleophilic agents. Zhur. ob. khim. 33 no.1:113-118 '63. (MIRA 16:1)

1. Institut organicheskoy khimii AN UkrSSR.

(Formazan) (Substitution(Chemistry))

LOZINSKIY, M.O.; PEL'KIS, P.S.; SANOVA, S.N.

Condensation and cyclization of aryl azo chloroacetic acids.
Part 1: 4-Phenyl-substituted Δ^2 1,3,4-oxadiazolin-5-ones.
Zhur.ob.khim. 33 no.7:2231-2235 Jl '63. (MIRA 16:8)

1. Institut organicheskoy khimii AN UkrSSR.
(Oxadiazolinone)

LOZINSKIY, M.O.; PEL'KIS, P.S.; SANOVA, S.N.

Preparation of arylazochloroacetic acids and 4-phenyl-substituted Δ^2-1,3,4-1,3,4-oxadiazolin-5-one. Ukr. khim. zhur. 30 no.1:68-72 '64. (MIRA 17:6)

1. Institut organicheskoy khimii AN UkrSSR.

LOZINSKIY, M.O.; SANOVA, S.N.; PEL'KIS, P.S.

1,5-Diaryl-3-(arylsulfonyl) formazans. Zhur.org.khim. 1 no.2:314-318 F '65. (MIRA 18:4)

1. Institut organicheskoy khimii AN UkrSSR.

ACCESSION NR: AP5011194 UR/0366/65/001/004/0798/0799

AUTHORS: Lozinskiy, M. O.; Pel'kis, P. S.

TITLE: Synthesis of 1,4-diaryl-1,4-dihydro-1,2,4,5-tetrazines

SOURCE: Zhurnal organicheskoy khimii, v. 1, no. 4, 1965, 798-799

TOPIC TAGS: organic synthesis, amine, acetic acid

ABSTRACT: In studying the reaction of arylazochloroacetic acids with triethylamine, it was found that on heating a mixture of such acids containing a nitro- in an aromatic nucleus) with the triethylamine for [illegible] hours, 1,4-diaryl- -dihydro-1,2,4,5-tetrazines are obtained [illegible] -oxadiazolidone-5. The structure of the [illegible] confirmed by spectroscopic investigation. 1,4-di(o-nitrophenyl)-1,4-dihydro- -tetrazine has maximums in the [illegible] in alcohol, [illegible] have intensive absorption [illegible] 1,4-diaryl-1,4-dihydro-1,2,4,5-tetrazines are [illegible] 95, soluble in dioxane, acetone, chloroform, benzene, glacial acetic acid, [illegible], and ether, but are not soluble in n-hexane or water. 1,4-di(o-nitrophe-

Card 1/2

L 52550-65

ACCESSION NR: AP5011194

nyl)-1,4-dihydro-1,2,4,5-tetrazine forms cherry-brown crystals, with a yield of 21%. The melting point is 166-168C, the formula $C_{14}H_{10}N_6O_4$. 1,4-di(2'-methoxy-5'-nitrophenyl)-1,4-dihydro-1,2,4,5-tetrazine forms gray-green crystals, with a [illegible] of 11%. The melting point is 212-[illegible] from a 2:1 mixture of dioxane and [illegible], the formula $C_{16}H_{14}N_6O_6$. [illegible]-nitrophenyl)-1,4-dihydro-1,2,4,5-tetrazine forms light brown crystals, with a yield of [illegible]. The melting [illegible] 197-199C (dioxane-alcohol-water, [illegible] formula [illegible] formula.

ASSOCIATION: Institut organicheskoy khimii, Akademii nauk, Ukrainskoy SSR (Institute of Organic Chemistry, Academy of Sciences, Ukrainian SSR)

[illegible] Date

SUBM: 30Jul [illegible] ATD PRESS: 3073

Card 2/2

LOZINSKIY, M.O.; PEL'KIS, P.S.

Condensation and cyclization reactions of arylazo chloroacetic acids. Part 2: Isothiocyanates and selenocyanates of arylazo chloroacetic acids and their reactions with aromatic amines. Zhur. org. khim. 1 no.8:1415-1422 Ag '65. (MIRA 18:11)

1. Institut organicheskoy khimii AN UkrSSR.

LOZINSKIY, M.O.; PEL'KIS, P.S.

Reactions of condensation and cyclization of arylazochloroacetic acids. Part 5: Chlorides, arylamides, and acyl hydrazides of arylazochloroacetic acids. Zhur. org. khim. 1 no.11:1970-1981 N '65. (MIRA 18:12)

1. Institut organicheskoy khimii AN UkrSSR. Submitted December 11, 1964.

LOZINSKIY, M. Ya., Engineer--Machinist

"Computing Form Tools" Stanki I Instrument, 17, No. 9, 1946

BR-52059019

DYMARSKIY, Yakov Semenovich; LOZINSKIY, Nikolay Nikolayevich; MAKUSHKIN, Aleksandr Timofeyevich; ROZENBERG, Vladimir Yakovlevich; ERGLIS, Vladimir Rudol'fovich; OGANESYAN, L.A., kand. tekhn. nauk, retsenzent; GINZBURG, R.I., kand. tekhn. nauk; BUROV, V.N., nauchn. red.; CHICHKANOVA, V.S., red.; KONTOROVICH, A.I., tekhn. red.

[Programmer's manual] Spravochnik programmista. [By] IA.S. Dymarskii i dr. Leningrad, Sudpromgiz. Vol.1. 1963. 627 p. (MIRA 16:9)
(Programming (Electronic computers))--Handbooks, manuals, etc.)

L 31154-65 EED-2/EWP(k)/EWT(d)/EWP(h)/EWP(l)/EWP(v) Pf-4/Pg-4/Pk-4/Po-4/Pq-4
IJP(c) GG/BB/GS
ACCESSION NR: AT5003620 S/0000/64/000/000/0176/0187 53
B+1

AUTHOR: Lozinskiy, N. N.; Mikhaylychev, V. I.

TITLE: Statistical evaluation of some principal parameters of control-machine digital computers

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomatizirovannyy elektroprivod (Automated electric drive). Leningrad, Izd-vo Nauka, 1964, 176-187

TOPIC TAGS: digital computer, control computer

ABSTRACT: A tentative statistical approach to the problem of selecting fundamental parameters of a control-type digital computer is described. The computer comprises: external and internal storages, an arithmetic unit, a control unit, analog-digital input converters, and digital-analog output converters. Storage capacities and time of operation are sought. Statistics are used for analyzing the factual material accumulated in the course of designing

Card 1/2

L 34154-65

ACCESSION NR: AT5003620

control computers and for processing this material by the Monte-Carlo method. The analysis is divided into 3 stages: (1) Evaluation of the program capacity for a specified count pattern; (2) Evaluation of the program length for each of N problems; (3) Estimation of the program length and time required to solve all N problems. The speed of operation is determined for these 3 types of problems: (a) continuous, (b) single, and (c) episodic (incidental). Orig. art. has: 4 figures, 9 formulas, and 2 tables.

ASSOCIATION: none

SUBMITTED: 08Jul64 ENCL: 00 SUB CODE: DP

NO REF SOV: 002 OTHER: 002

Card 2/2

BAZILEVICH, Vsevolod L'vovich; BAZILEVICH, Leonid Vsevolodovich; LOZINSKIY, N.N., inzh., retsenzent; ROZENBERG, V.Ya., nauchn. red.; NIKITINA, M.I., red.

[Command system and programming for the BESM-2 computer] Sistema komand i programmirovanie dlia BESM-2. Leningrad, Izd-vo "Sudostroitel'stvo," 1964. 341 p. (MIRA 17:8)

LOZINSKIY, N.N., inzh., ROZENBERG, V.Ye., inzh.-kapitan 3-go ranga

Methods of stating algorithms and the ALGOL-60 language.
Mor. sbor. 47 no.5:43-52 My '64. (MIRA 18:6)

L 15997-66

ACC NR: AP6005012 SOURCE CODE: UR/0208/66/006/001/0130/0143

AUTHOR: Vasil'yev, V. A. (Leningrad); Lozinskiy, N. N. (Leningrad)

34
B

ORG: none

TITLE: Automatic check on recording of algorithms in ALGOL-60

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 6, no. 1, 1966, 130-143

TOPIC TAGS: computer programming, electronic checkout, algorithmic language/ALGOL algorithmic language

ABSTRACT: A semantic method for checking the accuracy of ALGOL algebraic problems is proposed. The content and organization of the semantic program are discussed as well as various additional problems associated with freeing the information from errors. The proposed method verifies the program with respect to the following points: 1. the rules established for description of the programs should be observed; 2. the quantities appearing in the program should be used in positions corresponding to their "nature"; 4. the actual parameters of the procedure operator and

UDC: 681 : 142.2

Card 1/2

L 15997-66
ACC NR: AP6005012

the formal parameters for description of this procedure should correspond to one another in the sense that the procedure field, modified according to the rules for setting up the procedure operator, should be the ALGOL operator which is true in the syntactic and semantic sense, i. e. these four points should be fulfilled in the operator. A general program is described for carrying out this checking method. This verification system is self-contained with respect to the translator and may be used on machines with less complex coding. Some of the general limitations of the system are pointed out. Orig. art. has: 6 formulas.

SUB CODE: 09,12/ SUBM DATE: 02Mar65/ ORIG REF: 004/ OTH REF: 000

Card 2/2

ACC NR: AP6017989 (N) SOURCE CODE: UR/0413/66/000/010/0090/0090

INVENTOR: Basalayev, G. V.; Lozinskiy, O. Yu.; Frenkel', P. G.

ORG: None

TITLE: A method for measuring and registering the temperature in plasma electric heating units. Class 42, No. 181845 [announced by the All-Union Scientific Research Institute of Electric Heating Equipment (Vsesoyuznyy nauchno-issledovatel'skiy institut elektrotermicheskogo oborudovaniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 90

TOPIC TAGS: temperature measurement, plasma heating, electronic measurement

ABSTRACT: This Author's Certificate introduces a method for measuring and registering the temperature in plasma electric heating units based on the generalized method of spectrum reversal. The procedure is designed for improved measurement accuracy as well as for obtaining more detailed information on temperature field distribution. The optical system of the pickup is mechanically oscillated with respect to the zone being monitored with an amplitude greater than the dimensions of this zone and in a direction normal to the optical axis of the pickup. Working signals are received when the optical axis of the pickup is passing through the zone being monitored, while calibration signals are received when the optical axis of the pickup passes

Card 1/2 UDC: 536.5.087:533.9

ACC NR: AP6017989

beyond the limits of this zone. A special device is used for scaling the signals on the basis of the generalized method of spectrum reversal with statistical averaging into a continuous signal proportional to the temperature of the object.

SUB CODE: 13, 09, 20/ SUBM DATE: 18Sep64

Card 2/2

ZHURAVLEVA, Z.D.; DOBRONRAVOV, F.N.; LOZINSKIY, R.B.

Use of hydrocyclones at the Novo-Troitsk Factory. Sakh.prom. 34 no.2:14-20 F '60. (MIRA 13:5)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti (for Zhuravleva). 2. Novo-Troitskiy sakharnyy zavod (for Dobronravov, Lozinskiy).
(Novo-Troitsk (Kirghizistan)--Sugar machinery)
(Separators (Machines))

PESTRIY, N.V., inzh.; KHIRIN, N.D., inzh.; LOZINSKIY, R.P., inzh.; VESELOV, V.T., inzh.

Studying the model of a wet ash collector with a gas overfeed system. Teploenergetika 9 no.1:11-14 Ja '62. (MIRA 14:12)

1. Yuzhnoye otdeleniye Gosudarstvennogo tresta po organizatsii i ratsionalizatsii elektrostantsiy.
(Gases--Purification)
(Electric power plants--Equipment and supplies)

VESELOV, V.T., inzh.; DAROVSKIY, Ye.T., inzh.; LOZINSKIY, R.P., inzh.; KHIRIN, N.D., inzh.

Adjustment and testing of type MP-VTL ash collectors with a 4,500 mm. diameter. Teploenergetika 9 no.11:41-45 N '62. (MIRA 15:10)

1. Yuzhnoye otdeleniye Gosudarstvennogo tresta po organizatsii i ratsionalizatsii rayonnykh elektrostantsiy i setey.
(Fly ash)

LOZINSKIY, S.

"Concerning the Process of Fejer's Interpolation,"

SO: Dok. AN, 24, No. 4, 1939. Inst. of Mech., Univ. of Leningrad, c1939-.

LOZINSKIY, S.

"On the Strong Convergence of the Processes of Interpolation."

SO:28 No. 3, 1940. Univ. of Lening. Inst. of Math. cl940-.

LOZINSKIY, S.

"On the Converging Strength of the Procedures of Interpolation."

SO: Dok. AN, 30, No. 5, 1941. Int. of Math. Acad. of Sci. c1941-.

LOZINSKIY, S. M.

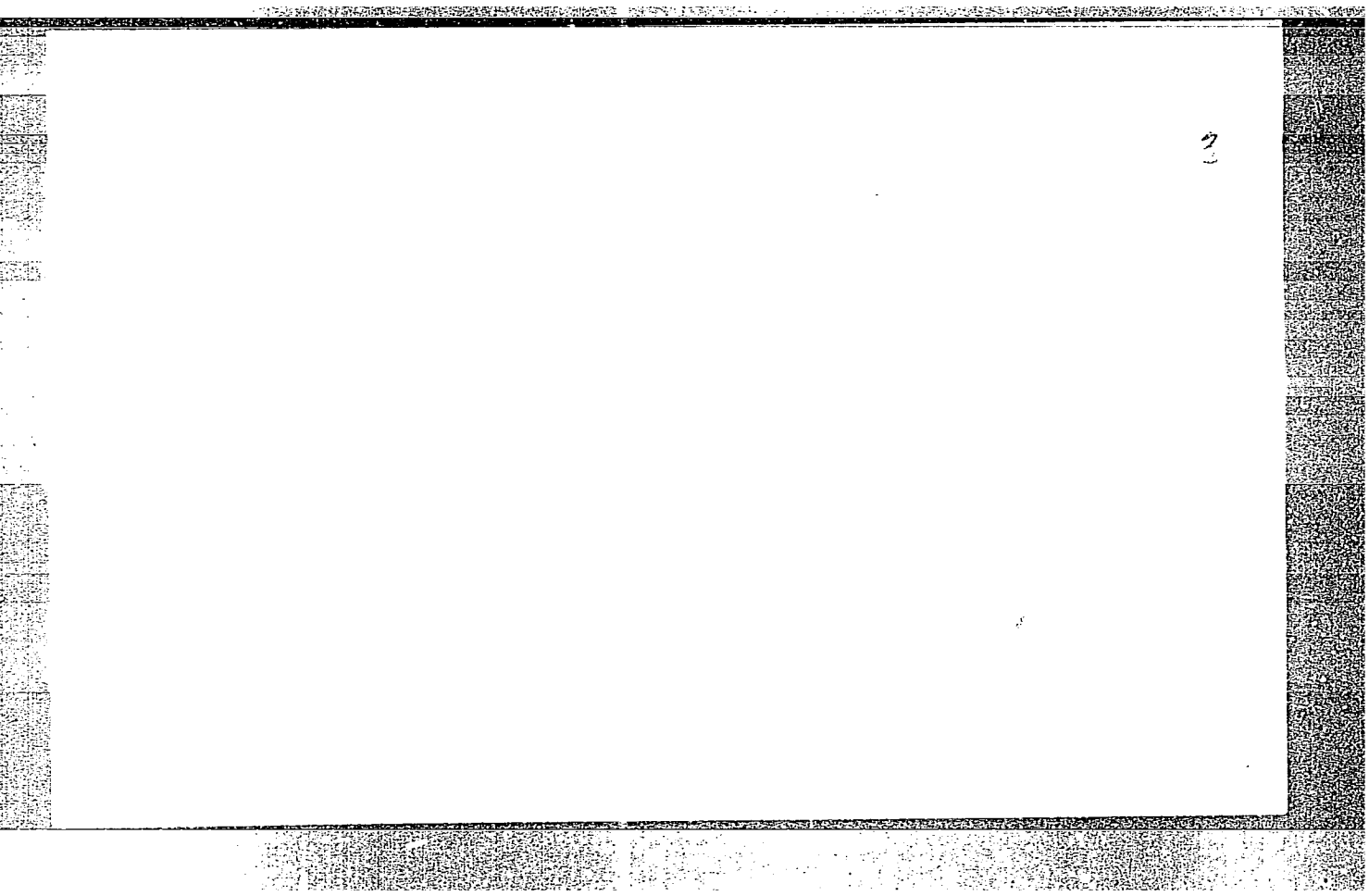
"On an Analogy Between the Summation of Fourier Series and that of Interpolation Trigonometric Polynomials," p; 83-87

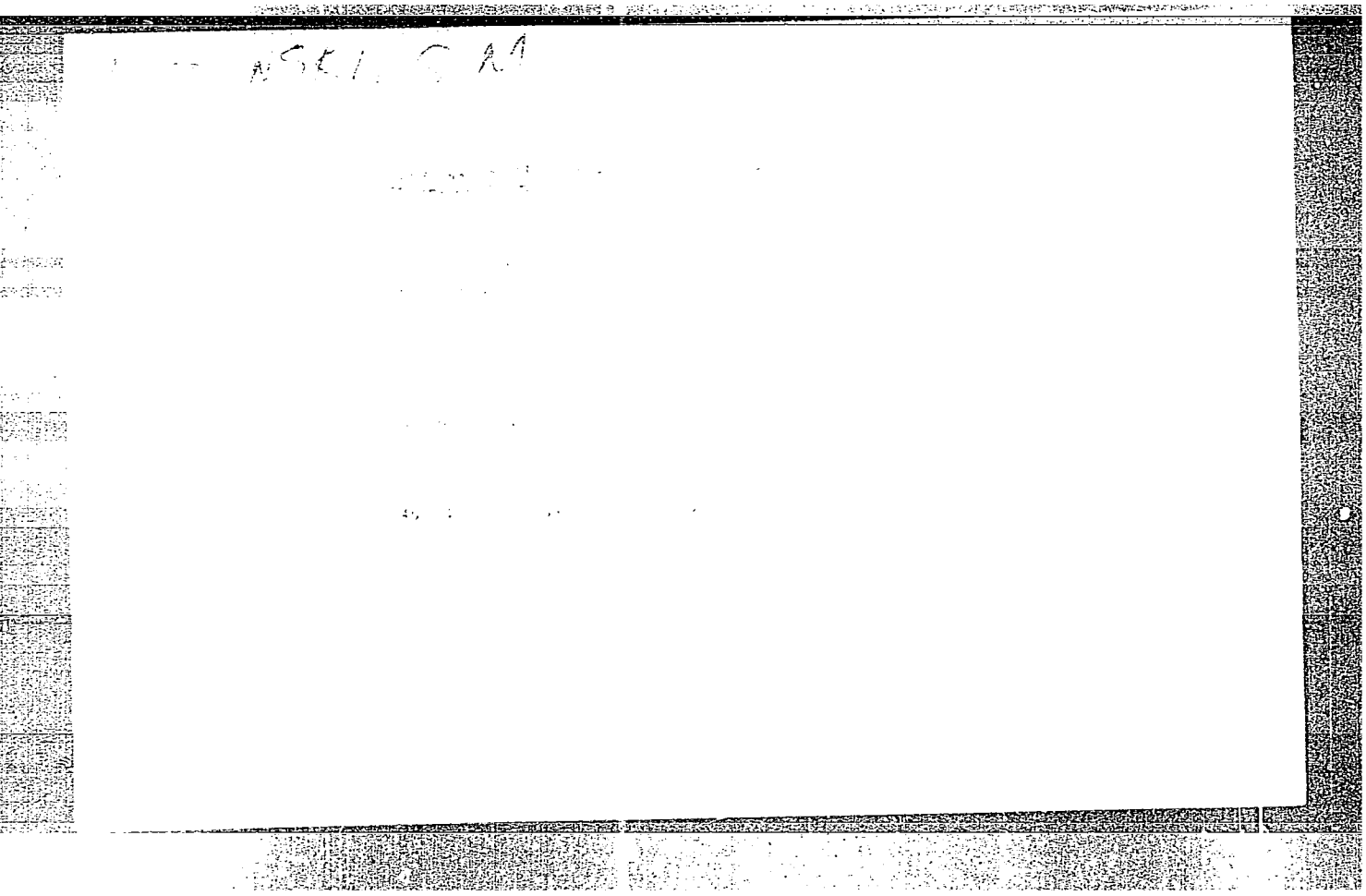
SO: Dok. AN, 39, No. 3, 1943. cl943-.

LOZINSKIY, S. M.

O subgarmonicheskikh funktsiyakh i ikh prilozheniyakh v teopii poverkhnostey. IAN, ser. Matem., 8(1944), 175-194.
O formulakh mekhanicheskikh kvadratur. IAN, ser. Matem., 4(1940), 113-126.
O trigonometricheskoy interpolyatsii. IAN, SER. Mateml, 4(1940), 229-248.
O sil'noy skhodimosti interpolyatsionnykh protessov. DAN, 28(1940), 202-205.
Ueber singulare Integrale. Matem. SB., 7(49), (1940), 329-364.
Ueber interpolation. Matem. SB., 8(50), (1940), 57-68.
O sil'noy skhodimosti interpolyatsionnykh protsessov. DAN, 30 (1941), 334-338.
Ob analogii mezhdu summirovaniyem ryadon fur'e i summirovaniyem interpolyatsionnykh triconometricheskikh polinomov. DAN, 39 (1943), 79-84.
On convergense and summability of fourier series and interpolation processes. Matem. SB., 14(56), (1944), 175-258.
Obobshcheniye teoremy S.N. Bernshteyna o proizvodnoy triconometricheskogo polinoma. DAN, 55(1947), 9-12.

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





M

Bozinski, S. A generalization of a theorem of S. Bernstein.
C. R. (Doklady) Acad. Sci. URSS (N.S.) 55, 9–12 (1947).
The author considers an entire function $f(z_1, \cdots, z_n)$ of n

LOZINSKIY, S. M.

"The Spaces C_W and C_W, and the Convergence of Interpolation Processes in Them."

SO: Dok. AN, 59, No. 8, 1948

Source: Mathematical Reviews. Vol 10, No. 1

LOZINSKIY, S. M.

"On the Sharp Convergence of Interpolation Processes, III,"

SO: Dok, AN, 60 No. 6, 1948.

LOZINSKIY, S. M.

PA 11/49T50

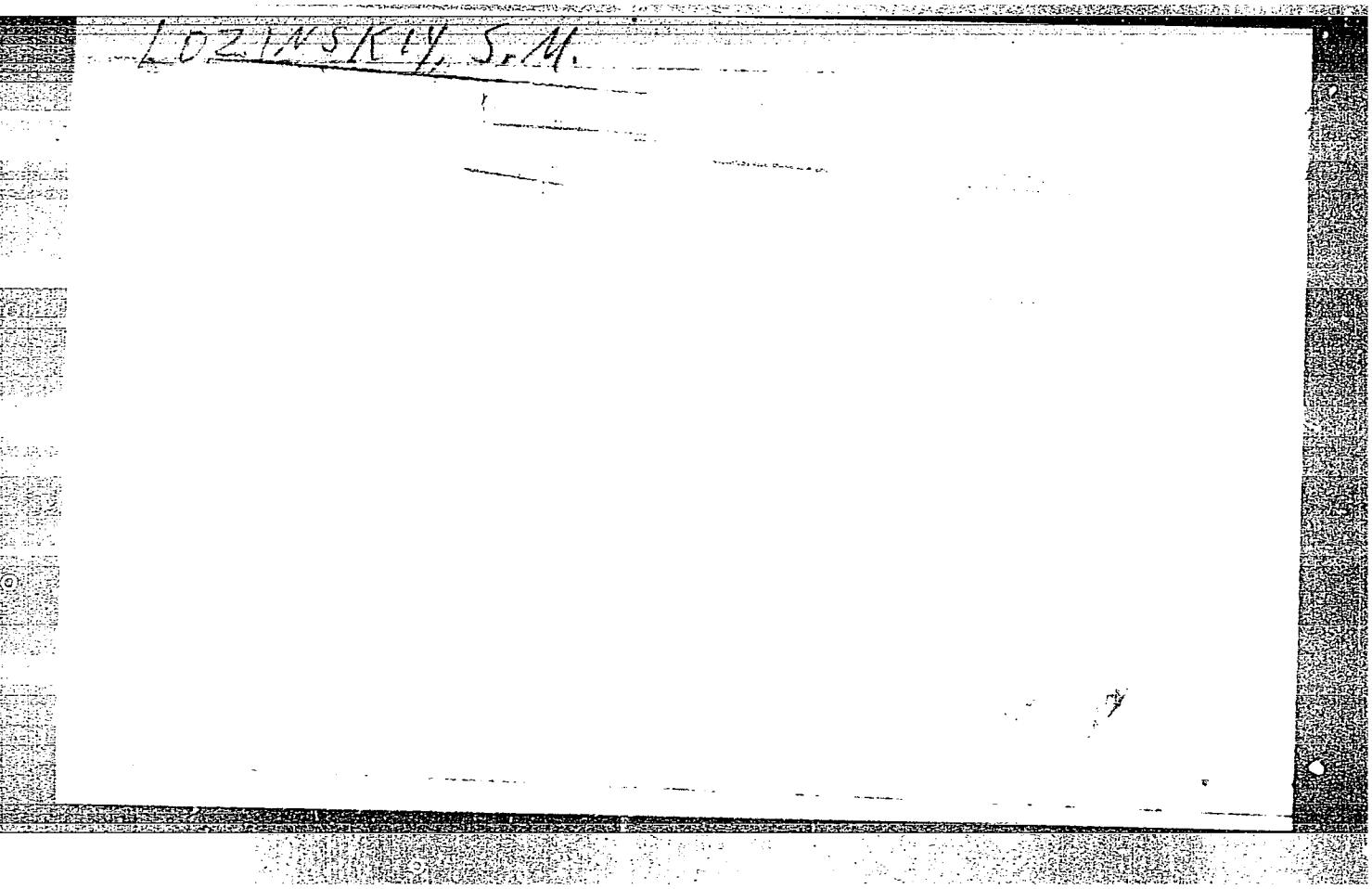
USSR/Mathematics - Operational Theory Jul 48
Mathematics - Trigonometry

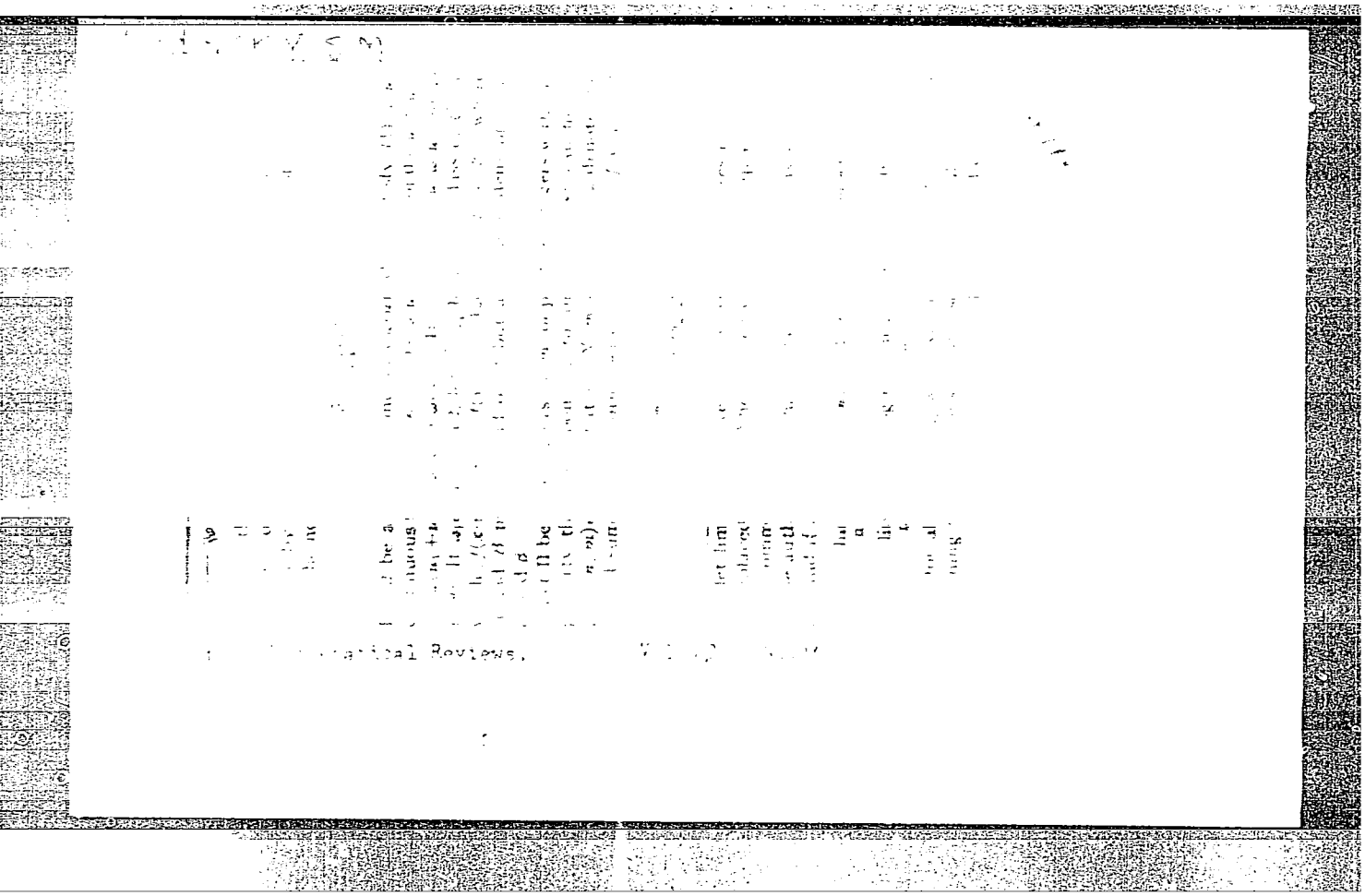
"One Class of Linear Operations," S. M. Lozinskiy, 3¼ pp

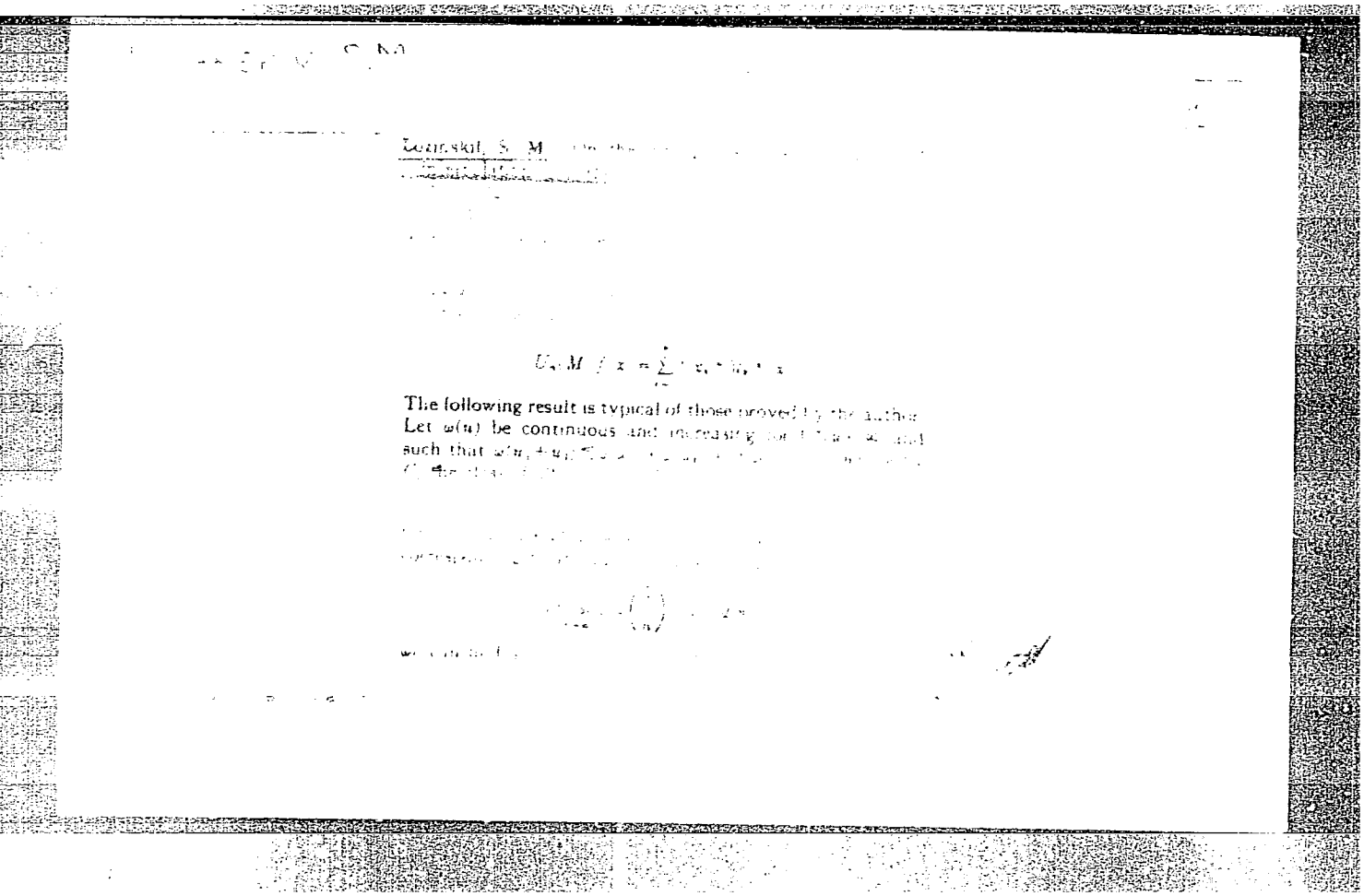
"Dok Ak Nauk SSSR" Vol LXI, No 2

States ten theorems for polynomial operations, five of which are trigonometric. Submitted 26 Apr 48.

11/49T50

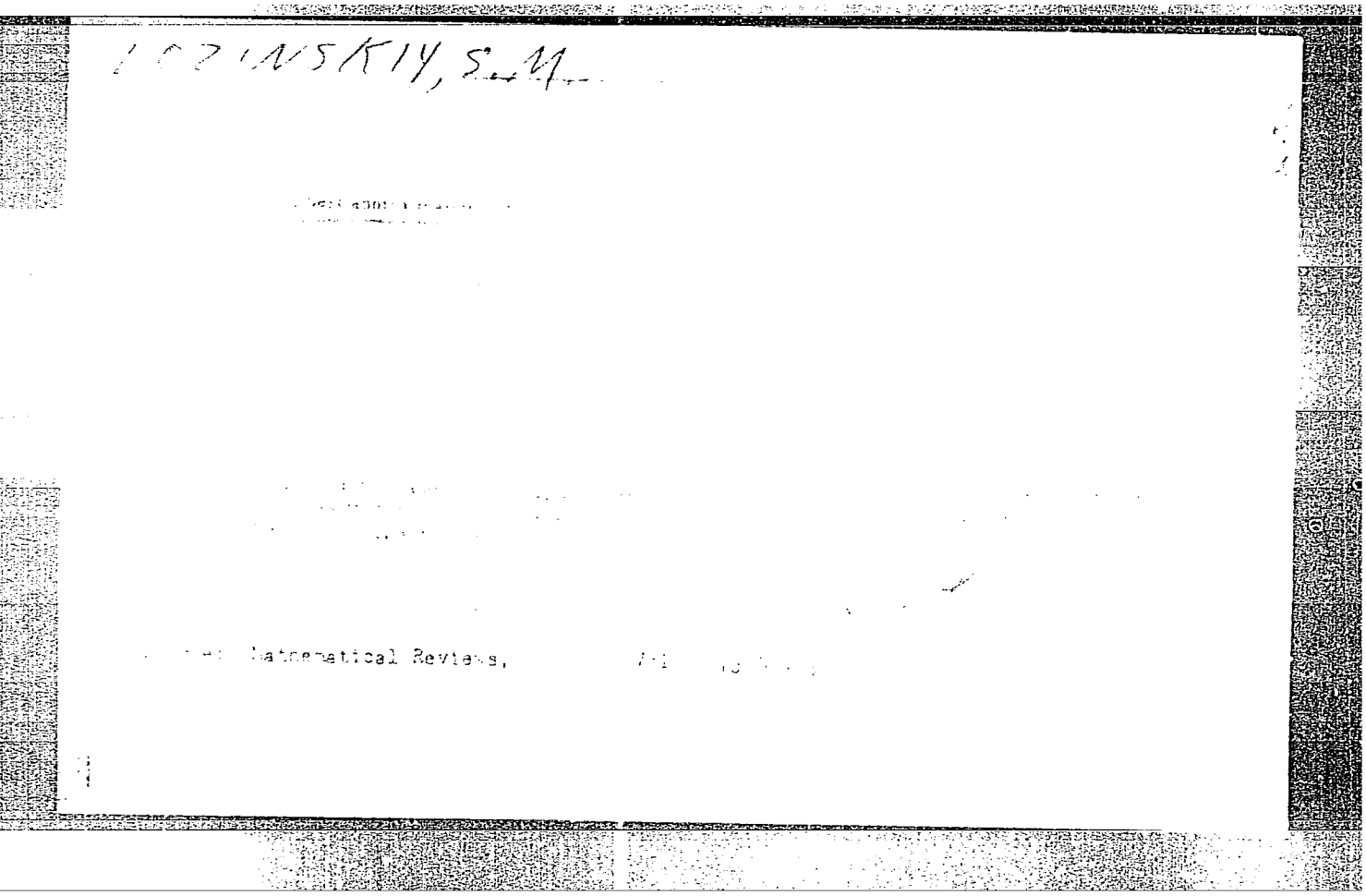






Lozinskiĭ, S. M.

The following result is typical of those proved by the author:
Let $w(u)$ be continuous and increasing for $0 \le u \le a$ and
such that $w(u+v) \le w(u) + w(v)$



Lozinskiĭ, S. M. On the convergence of interpolation processes for functions of two variables. Doklady Akad

LOZINSKIY, S. M.

Mathematical Reviews
Vol. 15 No. 2
Feb. 1954
Analysis

Lozinskiĭ, S. M. **On the rapidity of convergence of a sequence of linear operations.** Doklady Akad. Nauk SSSR (N.S.) 89, 609–612 (1953). (Russian)

Lozinskiĭ, S. M. **On the rapidity of convergence of a sequence of linear trigonometric polynomial operations.** Doklady Akad. Nauk SSSR (N.S.) 89, 785–787 (1953). (Russian)

The author continues his announcements without proofs of complicated theorems concerning linear operators on various classes of functions on $[0, 2\pi]$. [See Lozinskiĭ, same Doklady (N.S.) 64, 453–456 (1949); these Rev. 10, 529 and the literature there cited.] *E. Hewitt.*

USSR/Mathematics - Convergence Speed 11 Apr 53

"The Speed of Convergence of Sequence of Linear Trigonometric Polynomial Operations," S. M. Lozinskiy

"Dok Ak Nauk SSSR", Vol 89, No 5, pp 785-787

Continuation of author's previous work (DAN 89, No 4 (1953)), in which he considers functionals of the form $\sigma_T(f) \equiv \sigma_T(f,x) \equiv \frac{1}{\pi} \int_{-\pi}^{\pi} f(t)T(x-t)dt$, where T is in $\mathfrak{T}$ and f in $\tilde{L}$. Presented by Acad V. I. Smirnov 24 Jan 53.

LOZINSKIY, S. M.

USSR/Mathematics - Approximations 11 Sep 53

"Evaluation of the Error in the Approximate Solution to a System of Ordinary Differential Equations," S. M. Lozinskiy

DAN SSSR, Vol 92, No 2, pp 225-228

Considers the system of differential eqs $y_i' = f(t, y_1, \ldots, y_n)$ $(i = 1, \ldots, n)$, its vector soln $\vec{y}_i(t)$, the approx vector soln $\vec{Y}(t)$, and the vector residual $\vec{\Delta}(t) = \vec{Y}(t) - \vec{y}(t)$. Establishes 4 theorems that determine the upper bounds of the residual error in terms of the soln of a linear matrix (vector) system

269T77

$\vec{e}' = A(t)\vec{e} + \vec{Z}(t)$, where $A(t)$ is a matrix $//a_{ik}//$. Presented by Acad V. I. Smirnov 8 Jul 53.

LOZINSKIY S. M.

Lozinskiĭ, S. M. On equations in variations.

Akad. Nauk SSSR. N.S. 93, 621–624 (1953). [Russian]

If the vector [illegible] and [illegible] represent neighboring solutions on the interval $[a, b]$ of a system of differential equations, and if a solution of the equations for variations with $\eta(a) = \eta_0$, $\eta'(a) = y(a)$, the problem considered is to set bounds for the vector $\eta(b)$. The method used parallels that used in a [illegible]. Doklady (N.S.) 92, 225–228 (1953). The theorems are analogues of those developed in the previous paper. *A. S. Householder* (Oak Ridge, Tenn.).

LOZINSKIY, S.M.

Lozinskiĭ, S. M. On the interval of existence of a solution of a system of ordinary differential equations. Doklady Akad. Nauk SSSR (N.S.) 94, 17–19 (1954). (Russian) 62

This is a continuation of previous papers [same Doklady (N.S.) 92, 225–228 (1953); 93, 621–624 (1953); these Rev. 15, 473, 651] with a parallel set of four theorems relating to conditions under which the solution will lie in a specified region. No proofs are given. *A. S. Householder.*

USSR/ Mathematics

Card : 1/1

Authors : Lozinsky, S. M.

Title : On the method of approximation used in the solution of systems of ordinary differential equations

Periodical : Dokl. AN SSSR, Vol. 97, Ed. 1, 29 - 32, July 1954

Abstract : The report refers to two earlier works, by the same authors, in which works theorems were given, demonstrating a method of approximate solution of systems of differential equations. Because certain details of the proposed method were found to be vague, two new theorems are proposed. Two USSR references (1953 - 1954).

Institution : ....

Presented by : Academician, V. I. Smirnov, April 1954

Lozinskiy, S.M.

Call Nr: AF 1108825

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

Card 18/80

LOGINSKIY, N.M.

Inverse functions, implicit functions, and solution of equations (with summary in English). Vest. LGU 12 no.7:131-142 '57. (MLRA 10:6)
(Functions)

Lozinskiy S.M.

GAKHOV, F.D.; LOZINSKIY, S.M.; TUMARKIN, L.A.

[Program in mathematical analysis for physicomathematics, and mechanics and mathematics faculties of state universities. Majors: mathematics and mechanics] Programma po matematicheskomu analizu dlia fiziko-matematicheskikh i mekhaniko-matematicheskikh fakul'tetov gosudarstvennykh universitetov. Spetsial'nosti: Matematika i mekhanika. Minsk, Izd-vo Gelgosuniv., 1958. 6 p. (MIRA 11:3)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya. (Mathematics--Study and teaching)

AUTHOR: Lozinskiy, S.M. (Leningrad) SOV/140-58-5-6/14

TITLE: Estimation of the Error in the Numerical Integration of Ordinary Differential Equations I (Otsenka pogreshnosti chislennogo integrirovaniya obyknovennykh differentsial'nykh uravneniy I)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1958, Nr 5, pp 52- 90 (USSR)

ABSTRACT: The present paper is the first part of a paper on error estimations in the numerical integration of Cauchy's problems for ordinary differential equations. The extensive investigation deals with rigorous estimations of the errors which arise after the performance of k steps. The present part consists of a longer introduction, of a chapter with preparing notations and of a number of lemmata and of a chapter with error estimations. For a wide class of numerical integration methods the author gives an apriori and an aposteriori estimation of the error. In accordance with the difficulty of the problem the estimations depend on a great number of conditions which involve and complete each other in a characteristic way. In spite of the unquestionable theoretical value of the investigation one is inclined to call in question whether the large expenditure is paid, considering the practical uselessness of the results.

Card 1/2

Estimation of the Error in the Numerical Integration of Ordinary Differential Equations I SOV/140-58-5-6/14

There are 21 references, 12 of which are Soviet, 4 American, 3 German, 1 English, and 1 Polish.

ASSOCIATION: Leningradskaya voyenno-vozdushnaya Akademiya imeni A.F. Mozhayskogo (Leningrad Air Force Academy imeni A.F.Mozhayskiy)

SUBMITTED: December 6, 1957 (Date of Lecture, Leningrad)

Card 2/2

LOZINSKIY, S. M.

AUTHOR: LOZINSKIY, S.M.

43-7-9/18

TITLE: On the Banach Indicatrix (Ob indikatrise Banakha)

PERIODICAL: Vestnik Leningradskogo Universiteta, Seriya Matematiki, Mekhaniki i Astronomii, 1958, Nr 7 (2), pp 70-87 (USSR)

ABSTRACT: The paper contains the proofs for the theorems announced ten years ago [Ref.3] . Let the function $X = X(t)$ be real and bounded on $0 \leq t \leq 1$. Let $T_{t=\alpha}^{\beta}(X)$ denote the complete variation of $X(t)$ on $[0,1]$. Let V be the set of functions X for which $T_{t=0}^{1}(X) < +\infty$. Let C be the set of the $X(t)$ being continuous on $[0,1]$ and U_1 be the set of those $X(t)$ which have only discontinuities of first kind. Let $x \in [0,1]$ and $X \in U_1$. The following cases may appear: 1) $x = X(t)$; 2) $x \in \left[\min\{X(t-),X(t)\}, \max\{X(t-),X(t)\}\right]$ and $x \neq X(t)$; 3) $x \in \left[\min\{X(t),X(t+)\}, \max\{X(t),X(t+)\}\right]$ and $x \neq X(t)$. Let t be no root of $X(t) = x$ if there appears neither 1) nor 2) nor 3). Let t be a simple root if there appears only one of the cases. Let t be a double root if there appear two of the cases. Let $N(x,X)$ denote the number of roots t

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of the equation $X(t) = x$, $-\infty < x < +\infty$ counted with corresponding multiplicities. $N(x,X)$ is denoted as the Banach indicatrix of X.

Theorem: For every $X \in U_1$, $N(x,X)$ is measurable and $\int_{-\infty}^{\infty} N(x,X)dx = T^1_{t=0}(X)$. In order that $N(x,X)$ is summable on $(-\infty, \infty)$ it is necessary and sufficient that $X \in V$.

Theorem: If $X_n \xrightarrow{-v} X_o$ (convergence in variation [Ref.1]), then

$$\lim_{n\to\infty} \int_{-\infty}^{\infty} |N(x,X_n) - N(x,X_o)|dx = 0.$$

Theorem: Let $X \in U_1$, $a \leq X(t) \leq b$ for $0 \leq t \leq 1$. Let $\psi(x)$ be absolutely continuous on $a \leq x \leq b$. Putting with respect to Morse [Ref.4]:

$$\sigma(\psi,X) = \sum_{0 \leq t \leq 1}' \Big\{ T^1_{\lambda=0}\big[\psi\{\lambda X(t)+(1-\lambda)X(t-)\}\big] - |\psi X(t)\} - \psi\{X(t-)\}| + T^1_{\lambda=0}\big[\psi\{\lambda X(t+)+(1-\lambda)X(t)\}\big] - |\psi\{X(t+)\} - \psi\{X(t)\}|\Big\},$$

then we have $T^1_{t=0}[\psi\{X(t)\}] + \sigma(\psi,X) = \int_a^b |\psi'(x)| N(x,X)dx.$

On the Banach Indicatrix 43-7-9/18

The last theorem is only proved for $X \in C$!
2 Soviet and 5 foreign references are quoted.

SUBMITTED: 4 January 1958
AVAILABLE: Library of Congress

Card 3/3 1. Mathematics-Theory

Lozinskiy, S. M.

16(0) PHASE I BOOK EXPLOITATION SOV/3177

Matematika v SSSR za sorok let, 1917-1957. Tom II: Obzornyye stat'i (Mathematics in the USSR for Forty Years, 1917-1957). Vol II: 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, O. Ye. Shilova, and A. F. Yushkevich; Ed. (Inside book): A. F. Lapko; Tech. Ed.: S. M. 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 1917-1957; 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 1400 Soviet mathematicians is included with references to their contributions in the field.

16(1)

05268

AUTHOR: Lozinskiy, S. SOV/140-59-5-24/25

TITLE: Letter to the Editor

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 5, p. 222 (USSR)

ABSTRACT: These are some corrections to the author's paper "Estimation of the Error of the Numerical Integration of Ordinary Differential Equations" in Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1958, Nr 5.

Card 1/1

ALEKSANDROV, A.D.; AKILOV, G.P.; ASHNEVITS, I.Ya.; VALLANDER, S.V.; VLADIMIROV, D.A.; VULIKH, B.Z.; GABURIN, M.K.; KANTOROVICH, L.V.; KOLBINA, L.I.; LOZINSKIY, S.M.; LADYZHENSKAYA, O.A.; LINNIK, Yu.V.; LEBEDEV, N.A.; MIKHLIN, S.G.; MAKAROV, B.M.; MATANSON, I.P.; NIKITIN, A.A.; POLYAKHOV, N.N.; PINSKER, A.G.; SMIRNOV, V.I.; SAFRONOVA, G.P.; SMOLITSKIY, Kh.L.; FADDEYEV, D.K.

Grigorii Mikhailovich Fikhtengol'ts; obituary. Vest. LGU 14 no.19: 158-159 '59. (MIRA 12:9)
(Fikhtengol'ts, Grigorii Mikhailovich, 1888-1959)

LUKOMSKAYA, A.M.; LOZINSKIY, S.M., prof., red.; CHEBOTAREV, G.A., otv.red.; KAL', M.M., red.izd-va; BOCHEVER, V.T., tekhn.red.

[Principal foreign bibliographical sources for literature on mathematics and mechanics, 1931-1957] Osnovnye inostrannye bibliograficheskie istochniki po matematike i mekhanike, 1931-1957. Sost. A.M.Lukomskaia. Pod red. S.M.Lozinskogo. Moskva, 1960. 181 p. (MIRA 14:2)

1. Akademiya nauk SSSR. Biblioteka.
(Bibliography--Mathematics)
(Bibliography--Mechanics)

SMIRNOV, V.I., otv. red.; BUROV, V.N., red.; VORONOVSKAYA, Ye.V., red.; LOZINSKIY, S.M., red.; NATANSON, G.I., red.; KYMARENKO, B.A., red.; FAYNSHMIDT, V.L., red.; SMOLYANSKIY, M.L., red.; MURASHOVA, N.Ya., tekhn. red.

[Studies on modern problems in the constructive theory of functions] Issledovaniia po sovremennym problemam konstruktivnoi teorii funktsii; sbornik statei. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1961. 368 p. (MIRA 15:1)
(Functional analysis)

30532
S/043/62/000/001/002/009
D299/D303

16.6500 16.3400

AUTHOR: Lozinskiy, S.M.

TITLE: Numerical integration used for rigorous determination of the position of integral curves of a particular class of differential equations

PERIODICAL: Leningrad. Universitet. Vestnik, Seriya matematiki, mekhaniki i astronimii, no. 1, 1962, 71 - 79

TEXT: Two theorems are proved which state the conditions for the existence of a solution to Cauchy's problem. These theorems make it possible to use numerical-integration methods for proving the existence of a solution to Cauchy's problem on a certain interval. The proposed method can be programmed and the problem solved by a computer. It is stipulated that all the numbers under consideration are real, and that the functions assume real values; N denotes natural numbers and A -- either a real number or $+\infty$. Theorem 1: Let $f(t, x)$ be a continuous, non-negative, non-decreasing function; $t_0 < t_1 < \ldots < t_N < A$; $/x_k/_{k=0}^{N}$ is a sequence of numbers which satis-

Card 1/4

Numerical integration used for ...

fies the inequalities

$$x_{k+1} \geqq x_k + (t_{k+1} - t_k) f(t_{k+1}, x_{k+1}), \quad k = 0, 1, \ldots, N-1; \quad (1)$$

then Cauchy's problem

$$\frac{dx}{dt} = f(t, x) \quad (2)$$

$$x(t_o) = x_o \quad (3)$$

has, on the interval $t_o \leqq t \leqq t_N$, at least one solution for which

$$x(t_k) \leqq x_k, \quad k = 0, 1, \ldots, N. \quad (4)$$

Theorem 2: Let $f(t, x)$ be non-negative and have continuous, non-negative, non-decreasing, first-order partial derivatives; $t_o < t_1 < \ldots < t_N < A$; $/x_k/_{k=0}^{N}$ is a sequence satisfying the inequalities

$$x_{k+1} \geqq x_k + \frac{1}{2} (t_{k+1} - t_k) \{f(t_k, x_k) + f(t_{k+1}, x_{k+1})\}, \quad (5)$$

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Numerical integration used for ...

$$k = 0, 1, \ldots, N - 1. \qquad (5)$$

Then Cauchy's problem (2) (3) has a unique solution $x(t)$ on the interval $[t_0, t_N]$; this solution satisfies inequality (4). By replacing in (1) and (5) the sign $\gtrsim$ by the equality sign, one obtains computational formulas for numerical-integration methods (called Adams' interpolation methods of zeroth- and first order respectively). Therefore Theorems 1 and 2 make it possible to use the computational procedure of numerical integration for proving the existence of a solution to Cauchy's problem on a certain interval. If sequences $\{t_k\}^N$ and $\{x_k\}^N$ can be found, which satisfy the conditions of Theorems 1 or 2, then numbers t_{N+1} and x_{N+1} can be found too, so that the sequences $\{t_k\}^{N+1}$ and $\{x_k\}^{N+1}$ also satisfy the conditions of the theorems. Hence, by ensuring (by means of Theorems 1 and 2) a certain interval of existence of the solution to Cauchy's problem (2) (3), it is possible to ensure (by same theorems) a somewhat larger interval of existence. The described compu-

Numerical integration used for ...

tational procedure can be programmed and carried out by a computer; in fact, the computer "Ural" was programmed for computing the number-pair (t_k, x_k), satisfying formula (5). Initially, one set $t_{k+1} - t_k = 2^{-6}$. The computer reduced the step by half each time. As an example, illustrating the use of the theorems, Cauchy's problem

$$\frac{dx}{dt} = t^2 + x^2, \tag{6}$$

$$x(0) = 0, \tag{7}$$

is considered. The interval of existence of the solution has the form $[0, \beta)$. Using Theorems 1 and 2, a lower estimate is obtained for β. This estimate was made both with - and without the computer. The estimate obtained by means of the computer was found to be better than that obtained by ordinary calculation. Theorems 1 and 2 can be extended to systems of differential equations. Finally, proofs are given to the two theorems. There are 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc (including 1 translation).

Card 4/4

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S/044/62/000/011/009/064
A060/A000

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AUTHOR: Lozinskiy, S.M.

TITLE: On the variation of the fundamental Lagrange interpolation polynomials

PERIODICAL: Referativnyy zhurnal, Matematika, no. 11, 1962, 19, abstract 11B87 (Ann. Univ. scient. budapest. Sec. math., 1960 - 1961, v. 3 - 4, 145 - 158)

TEXT: For a trigonometric interpolation with the matrix of points

$$\mathfrak{M} = \| x_k^{(n)} \| \quad (k = 1, 2, \ldots, 2n + 1; \quad n = 0, 1, \ldots),$$

$$0 < x_1^{(n)} < \ldots < x_{2n+1}^{(n)} < 2\pi, \quad l_k^{(n)}(\mathfrak{M})\,(x_i^{(n)}) = \delta_{ik}$$

the inequalities

$$\frac{1}{2n+1} \sum_{k=1}^{2n+1} \operatorname{Var} l_k^{(n)}(\mathfrak{M}) \geq \frac{4}{\pi} \lg (2n + 1), \quad (n = 0, 1, \ldots)$$

hold; for every $n = 0, 1, 2, \ldots$ there exists a $k = k(\mathfrak{M}, n)$ such that

Card 1/2

On the variation of the fundamental Lagrange ....

S/044/62/000/011/009/064
A060/A000

Var $l_k^{(n)}(m) \geq \frac{4}{\pi} \log(2n+1)$; in both inequalities $\frac{4}{\pi}$ is best. In the case of algebraic interpolation with points within the interval $[-1, +1]$ there hold analogous inequalities, but with $2n+1$ replaced by n and $\frac{4}{\pi}$ replaced by $\frac{2}{\pi}$; in that case, however, it may not be asserted that the constant $\frac{2}{\pi}$ is best.

Ya.L. Geronimus

[Abstracter's note: Complete translation]

Card 2/2

VULIKH, B.Z.; GAVURIN, M.K.; LOZINSKIY, S.M.

Isidor Pavlovich Natanson, 1906-1964; obituary. Usp. mat. nauk 20 no.1:171-175 Ja-F '65. (MIRA 18:4)

LOZINSKIY, S.M.

Theory of finite matrices. Dokl. AN SSSR 163 no.4:809-811 Ag '65.
(MIRA 18:8)

1. Submitted January 25, 1965.

LOZINSKIY, S.M.

Estimates of a spherical matrix norm and the corresponding logarithmic norm. Dokl. AN SSSR 165 no.4:763-766 D '65.
(MIRA 18:12)

1. Submitted April 13, 1965.

LOZINSKIY, S.N., starshiy prepodavatel' (g.Odessa); KOTOVA, A.I., assistent (g.Odessa)

[Collection of problems on probability theory] Sbornik zadach po teorii veroiatnostei. Odessa, Odesskii kreditno-ekon.in-t. No.1. 1960. 62 p. (MIRA 14:1)
(Probabilities)

LOZINSKIY, T.; RUNGE, S.; KEVOYNOVSKIY, A. and DZIUBEK, T.

"Ring tests for diagnosis of brucelosis in cows." (from "Medycyna veterynaryjna" No. 6, 1951).

SO: Veterinariya, 29 (3), 1952, p. 55

LOZINSKIY, T.

USSR/Medicine, Veterinary - Infectious Diseases Mar 52

"Ring Test for Diagnosing Brucellosis of Cows (Translated Into Russian From 'Medycyna Veterinaryina,' No 6, 1951," S. Runge, T. Lozinskiy, A. Khvoynovskiy, T. Dzyubek

"Veterinariya" Vol XXIX, No 3, pp 55, 56

Describes in detail the technique of this test, which is carried out on lactating cows.

216T36

POLAND/Cultivated Plants - Grains. M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15493

Author : T. Lozinskiy

Inst : The Institute for Plant Selection and Acclimatization, Warsaw.

Title : Attainments in the Selection of Grain Crops in the Post-War Years.
(Dostizheniya selektsii zernovykh kul'tur v poslevoyennyye gody).

Orig Pub : Zesz. probl. "Kosmosu", 1955, No 1, 12-47

Abstract : The planned development of selection work began in 1945 after the organization of the State institutes of plant selection in Warsaw. The Institute for Plant Selection and Acclimatization was organized in 1951. The duration of the stages in vernalization of the wheat varieties

Card 1/3

POLAND/Cultivated Plants - Grains. M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15493

raised in Poland were studied in this institute. The application of vernalization in this selection work allowed the obtaining in a single year of two generations of winter and three generations of summer crops. The Bayka variety summer wheat (Triticum vulgare V. ll. var. lutescens) having 25-12 hour photoperiods under good feeding conditions had 7.8% pedicled spiklets. The branching of the spikes was also obtained under the influence of growth substances. By means of intervarietal crossing a new wheat form, Ostka Stcheletska, with excellent bread baking qualities was obtained. The Pshodovintsa winter wheat variety was introduced which may be cultivated on poorer soils, as was the new Universal'nyy rye variety obtained through the free crossing of 44 local and foreign varieties having about 12% albumin content. The LP-214 oat variety was introduced which is resistant to the European frit fly, as well as a number

Card 2/3

POLAND/Cultivated Plants - Grains. M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15493

of new corn varieties. Investigation of the cold-resistant varieties showed that the vigor variety has shoots at lower temperatures than the other varieties, although the Pshebendovska Burshtynova withstands the early Spring frosts better than the others. The wheat with rye hybrids obtained yielded a series of new cultivation types, the selection of which is not yet completed. The area taken up by grain variety sowings in 1952 was 3% (before the war the variety sowings occupied ~ 0.3%).

Card 3/3

RUDNEV, D.F.; LOZINSKIY, V.A.

Spraying DDT and benzenehexachloride in a mineral oil solution in insect control. Dop. AN URSR no.3:199-204 '54. (MIRA 8:4)

1. Institut entomologii ta fitopatologii AN URSR. Predstavleno deystvitel'nym chlenom Akademii nauk USSR P.A.Vlasyukom.
(Insecticides) (Spraying and dusting)

LOZINSKIY, V.A.; ZAGAYKEVICH, I.K.

Prominent moth larvae, a widespread pest oak in the Ukraine.
Nauch.trudy Inst.ent.i fit. 6:71-79 '55. (MLRA 9:7)
(Ukraine--Moths) (Oak--Disease and pests)

USSR / General and Specialized Zoology. Insects. P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6852.

Author : Lozinskiy, V. A.
Inst : Not given.
Title : The Thaumatopoea Processionea L. - Pest of the Forests in Southern USSR.

Orig Pub: Lesn. Kh-Vo, 1957, No 5, 40-42.

Abstract: No abstract.

Card 1/1

USSR/General and Specialized Zoology - Insects. P.

Abs Jour : Ref Zhur - Biol., No 8, 1958, 35314

Author : Lozinskiy, V.A.
Inst :
Title : The Small Gypsy Moth in the South of Ukrainian Poles'ye.

Orig Pub : Zashchita rast. ot vredit. i bolezney, 1957, No 1, 51-52.

Abstract : Parocneria detrita damages the oak only. It lays its eggs in the lower part of the crown. The young larvae eat out the leaves in part; following hibernation they devour the leaves completely. The parasites of the pest and its diseases are described. Control measures are indicated.

Card 1/1

LOZINSKIY, V. A., Cand Biol Sci -- (diss) "Principal oak pests from the order Lepidoptera in the forests of the UkSSR and measures for their control." Kiev, 1958. 15 pp (Min of Agriculture UkSSR, Ukrainian Acad Agr Sci), 130 copies (KL, 16-58, 118)

USSR / General and Specialized Zoology - Insects. P

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 20934

Author : Lozinskiy, V. P.
Inst : Ukrainian Academy of Agricultural Sciences
Title : Termites in the South of the Ukraine

Orig Pub : Visnik sil'skogospod. nauki. Ukr. akad. sil'skogospod. nauk, 1958, No 1, 89-91

Abstract : In the Nikolayevskaya Oblast' one species of termites, Reticulitermes lucifugus, was encountered. Temporary measures of controlling it are recommended: the digging of trenches around buildings with introduction into them of DDT and hexachlorocyclohexane dusts, and also the addition of DDT dust into plaster, clay,

Card 1/2

USSR / General and Specialized Zoology - Insects. P

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 20934

paints, and the enforcement of a quarantine. -- V. G.

Card 2/2

LOZINSKIY, V.A.

Correlation between the weight of pupae and the amount and weight of eggs of the gypsy moth. Zool. zhur. 40 no.10:1571-1573 O '61. (MIRA 14:9)

1. Ukrainian Research Institute of Plant Protection, Kiyev.
(Gypsy moth)

Lozinskiy, V.A.

ROMANOVA, Yu.S.; LOZINSKIY, V.A.

Experiments in using egg parasites of the tent caterpillar Malacosma neustria under forest conditions [with summary in English]. Zool. zhur. 37 no.4:542-547 Ap '58. (MIRA 11:5)

1. Kafedra zoologii Moskovskogo gosudarstvennogo pedagogicheskogo instituta im. V.I. Lenina i Institut zashchity rasteniy Ministerstva sel'skogo khozyaystva USSR.
(Kiev Province--Tent caterpillars--Biological control)
(Oak--Diseases and pests)

LOZINSKIY, V.A.

Effect of floods in forests on the formation of foci of lepidopteran pests. Zool. zhur. 39 no. 10:1515-1520 O '60. (MIRA 13:11)

1. Department of Entomology, Ukrainian Institute of Plant Protection, Kiyev.
(Odessa Province--Forest insects)
(Transcarpathia--Forest insects) (Floods)

MYSHKIN, L.P.; LYSYANYY, G.N.; LOZINSKIY, V.A.

Hydrogeological grounds for establishing the oil and gas potential of the convergence band in the inner and outer zones of the Carpathian piedmont fault. Neft. i gaz. prom. no.2:5-7 Ap-Je '65. (MIRA 18:6)

LOZINSKIY, V. I., Cand Med Sci -- "Polyps of the female urethra." Voronezh, 1961. (Min of Health RSFSR. Ryazan' Med Inst im Acad I. P. Pavlov) (KL, 8-61, 262)

KEYLIN, G.S.; LOZOVSKIY, V.L.

Soldering of stainless X18H9T chromium-nickel steel. Med. prom 17 no.6:51-52 Je'63 (MIRA 17:4)

1. Leningradskoye ob"yedineniye predpriyatiy meditsinskoy tekhniki "Krasnogvardeyets".

LOZINSKIY V.N.

TSYPIN, Ya.Ye., LOZINSKIY, V.N., retsenzent; ARSEN'YEV, S.P., redaktor; MAKRUSHINA, A.N., redaktor; BEGICHEVA, M.N., tekhnicheskiy redaktor

[Organization of river fleet operation according to schedule] Organizatsiia raboty rechnogo flota po grafiku. Moskva, Gos. izd-vo vodnogo transporta, 1954. 94 p. (MLRA 7:10)
(Inland water transportation)

LOZINSKIY, V.N.

TERSKHOV, A.A., kand. tekhn. nauk; LOZINSKIY, V.N., inzh.

Motor dump cars for open pit mines. Gor. zhur. no.2:44-46 F '58.
(Dump trucks--Electric driving) (MIRA 11:3)
(Strip mining)

TEREKHOV, A.A., kand. tekhn. nauk; BAKANOV, V.I., inzh.; LOZINSKIY, V.N., inzh.; OZHIGOV, Yu.S., inzh.

New self-dumping motorcar. Vest. TSNII MPS 18 no.7:53-56 N '59. (MIRA 13:2)

(Mine railroads)

LOZINSKIY, V.N., inzh.; LAPTEV, A.Ye., inzh.

Experiences and problems in using motorized dump cars in open-pit mines. Gor. zhur. no. 6:14-17 Je '61. (MIRA 14:6)

1. Trest Korkinugol'.
(Mine railroads--Cars)

PARUNAKYAN, V.E., inzh.; YASYUCHENYA, V.V., inzh.; LOZINSKIY, V.N., inzh.

Use of a 200 ton electric locomotive in pit haulage. Izv.vys. ucheb.zav.; gor.zhur. 5 no.2:128-130 '62. (MIRA 15:4)

1. Chelyabinskiy sovnarkhoz (for Parunakyan, Yasyuchenya).
2. Trest Korkinugol' (for Lozinskiy).
(Chelyabinsk Basin--Mine railroads)

LOZINSKIY, V.N.; MOISEYEV, I.A., kand. tekhn. nauk, retsenzent; FILIPPOVA, L.S., red.

[Using acetylene substitutes in the welding and cutting of metals] Ispol'zovanie zamenitelei atsetilena pri svarke i rezke metallov. Moskva, Transzheldorizdat, 1963. 18 p. (MIRA 16:9)

(Gas welding and cutting)

L 01129-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AR5013778 UR/0275/65/000/004/B020/B020
621.382.13:546.28

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Sv. t., Abs. 4B146

35
B

AUTHOR: Lozovskiy, V. N.; Politova, N. F.; Gershanov, V. Yu.

TITLE: Effect of the metal work function on the rectifying characteristics of a metal-silicon contact

CITED SOURCE: Uch. zap. Kabardino-Balkarsk. un-t. Ser. fiz.matem. n., vyp. 19, 1963, 329-334

TOPIC TAGS: semiconductor diode, silicon diode, work function

TRANSLATION: The effect of contact potential difference on barrier height, with no interference from the surface leakage current, has been investigated. Studies of the reverse branch of the current-voltage characteristic of Ca, Mg, Cr, Cu, and Pt contacts sprayed upon a 10--12-ohm-cm silicon have shown that a fairly definite correlation exists between the metal work function, the ordinary component of the inverse current, and the barrier height. This correlation does not extend to the total leakage current. The surface processing has also an essential influence on the ordinary reverse current; however, under experimental

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