

VITTINI, V.A. (Novosibirsk); GINZBURG, A.N. (Novosibirsk)

Optimal discretization of measurement signals. Avtomatika no.3:
26-33 '65. (MIRA 19:1)

1. Submitted Sept. 15, 1964.

L 47055-66 EWT(d)/FSS-2/EEC(k)-2/EWP(v)/T-2/EWP(k)/EWP(n)/EWP(z)
ACC NR: AP6015323 (IV) SOURCE CODE: UR/0410/65/000/003/0026/0033

AUTHOR: Vittikh, V. A. (Novosibirsk); Ginzburg, A. N. (Novosibirsk)

63
B

ORG: none

TITLE: Optimal encoding of telemetry signals (Paper presented at the Sixth All-Union Conference on Automatic Control and Electric Measurement Methods held in Novosibirsk in September 1964)

SOURCE: Avtometriya, no. 3, 1965, 26-33

TOPIC TAGS: telemetry technique, error minimization, dynamic programming, signal coding, successive approximation method

ABSTRACT: Optimal encoding of fully known continuous signals, considered as determined functions of time, is discussed mathematically. The problem reduces itself to the minimization of some error functional, or to determining the minimal value of ϵ -entropy by successive approximation. Dynamic programming is deemed preferable to standard methods of classic analysis, even though it requires the employment of a universal digital computer. Orig. art. has: 23 formulas.

SUB CODE: 09,12/ SUBM DATE: 15Sep64/ ORIG REF: 004/ OTH REF: 008
Card 1/1 ULR UDC: 62-503

L 55907-65 EWT(d)/EEC(k)-2/EEC(f)/EEC-4/EED-2/EWP(1) Pn-4/Pn-4/Pq-4/Pq-4/
Pk-4/Pl-4 IJP(c) BB/GG
ACCESSION NR: AP5012336

UR/0288/65/000/001/0032/0037
681.142.323

60
59
B

AUTHOR: Vittikh, V. A.; Ginzburg, A. N.; Drobyshev, Yu. P.

TITLE: A method for the design of special computer devices reducing the excess of experimental data during the study of continuous processes

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk, no. 1, 1965, 32-37

TOPIC TAGS: ¹⁶⁰compact data representation, Fourier coefficient evaluation, empirical function expansion, Chebyshev coefficient, computer input

ABSTRACT: The representation of information in compact form plays an important role during the introduction of data into digital computers or its transfer through limited capacity communication channels. The present paper outlines a method for the integration of a function $f(x)$ with a weight function $\rho(x) = 1/\sqrt{1-x^2}$ ($-1 \leq x \leq 1$) which permits a simple evaluation of the Fourier-Chebyshev coefficients of empirical functions. The proposed approach can be used for a very simple design of specialized computer devices earmarked for a compact representation of experimental data. Orig. art. has: 20 formulas and 1 figure.

Card 1/2

L 55907-65

ACCESSION NR: AP5012336

ASSOCIATION: Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN
SSSR, Novosibirsk (Institute of Automation and Electrometry, Siberian Section,
AN SSSR)

SUBMITTED: 27Jun64

ENCL: 00

SUB CODE: DP

NO REF SOV: 006

OTHER: 002

Card 2/2

VITTIKH, V.A. (Novosibirsk); GINZBURG, A.N. (Novosibirsk)

Algorithm for data collection control. Avtometriia no.4:
28-35 '65. (MIRA 18:9)

.L 11119-66

ACC NR: AP6002011

SOURCE CODE: UR/0288/65/000/003/0037/0041

AUTHOR: Vittikh, V. A.; Ginzburg, A. N.; Kulikovskiy, K. L. 14
B

ORG: Institute of Automatic and Electrometry, Siberian Branch, AN SSSR (Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR)

TITLE: Determining the maximum deflection angle of the moving component of an electrometer

SOURCE: AN.SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk, no. 3, 1965, 37-41

TOPIC TAGS: electrometer, electrometric amplifier

ABSTRACT: Sensitivity of an electrometric amplifier depends, among other things, on the maximum permissible angle θ of deflection of the moving component of the electrometer; hence, increasing the electrometer range may result in considerably higher output of the amplifier. Formulas are developed which permit determining θ_{max} from a specified nonlinearity of the torque-deflection angle ratio; the torque curve is approximated by Chebyshev polynomials. A 9-step computation procedure is suggested. Orig. art. has: 20 formulas.

SUB CODE: 09 / SUBM DATE: 23Mar65 / ORIG REF: 002 / OTH REF: 001

Card 1/1 *HW*

UDC:621.317.745:621.317.723

VITTIKH, V.A.; GINZBURG, A.N.; KULIKOVSKIY, K.L.

Determining maximum angle of deflection of the movable part
of an electrometer. Izv. SO AN SSSR no. 10. Ser. tekhn. nauk
no. 3:37-41 '65 (MIRA 19:1)

1. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya
AN SSSR, Novosibirsk. Submitted March 23, 1965.

REF ID: A6615382 (N) SOURCE CODE: UR/0410/65/000/004/0028/0035

ACC NR: AP015382 (N)

SOURCE CODE: UR/0410/65/000/004/0028/0035

AUTHOR: Vittikh, V. A. (Novosibirsk); Ginzburg, A. N. (Novosibirsk)

ORG: none

TITLE: One algorithm for the control of information collection 160

44 B

SOURCE: Avtometriya, no. 4, 1965, 28-35

TOPIC TAGS: algorithm, data acquisition, Legendre polynomial, automatic control design, analog digital converter

ABSTRACT: The authors consider an algorithm for the control of information collection from the source of a continuous signal. Based on the use of orthogonal Legendre polynomials and lacking any differentiation step, the algorithm possesses certain filtration properties due to a double integration of the signal with noise. The structural principle of adaptive discretizers based on the use of Legendre polynomials is analyzed, and it is shown that the error incurred in the uniform approximation of a signal by zero- and first-order orthogonal Legendre polynomials can be rather easily computed. By establishing the relation of this error to the linear integration error of the signal, a functional diagram of an information collection control device for use with this algorithm is presented. In essence, this device controls the time the

Card 1/2

UDC: 62-503

L 41159-66

ACC NR: AF 15382

test signal is connected to the analog-digital converter. The algorithm discussed for the control of information collection from a continuous signal source is an interpolation algorithm. Unlike well-known extrapolation algorithms, which are based on a prediction of signal properties from the value of the signal itself and its derivatives at a point $t=0$ and which are less flexible (since the approximation line does not undergo a parameter change as the time segment is increased) this algorithm makes it possible to obtain large compression factors. Moreover, using as it does orthogonal Legendre polynomials, this algorithm is superior to extrapolation algorithms in terms of its noise-suppression characteristic because it employs a double integration of the signal. Orig. art. has: 2 figures and 5 formulas.

SUB CODE: 05,12,09/ SUBM DATE: 10Apr65/ ORIG REF: 006

Card 2/2 hs

GINZBURG, A.R.

GR-700-4 gas-turbine unit. Gaz. prom. 4 no.7:41-45 J1. '59.
(MIRA 12:10)
(Gas, Natural--Pipelines) (Compressors) (Gas turbines)

GINZBURG, Abram Solomonovich, prof.; MIKHEYEVA, Natal'ya Semenovna;
BAB'YEV, Nikolay Nikolayevich; SYROYEDOV, Viktor Iudovich;
GRACHEV, Yuriy Pavlovich; ZHURAVLEV, Vyacheslav Fedorovich;
DASHEVSKIY, V.I.; FEDOROV, N.Ye., prof., retsenzent;
SEREGIN, P.V., dots., retsenzent; GORBATOV, A.V., dots.,
retsenzent; ROGOV, I.A., dots., retsenzent; KOVALEVSKAYA,
A.I., red.

[Processes and apparatus of the food industry; practical
laboratory work] Protsestry i apparaty pishchevykh proiz-
vodstv; laboratornyi praktikum. [By] A.S.Ginzburg i dr.
Moskva, Pishchevaia promyshlennost', 1964. 270 p.

(MIRA 17:11)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy
promyshlennosti, kafedra protsessov i apparatov (for Fedorov,
Rogov, Gorbato). 2. Vsesoyuznyy zaochnyy tekhnologicheskii
institut pishchevoy promyshlennosti (for Seregin).

GINBURG, A.S., dotsent, kandidat tekhnicheskikh nauk.

Theoretical principles of bread baking. Trudy MTIPP 2:357-382
'52. (Baking) (MIRA 9:2)

CHIRKIN, A. G.

Doctor of Technical Sciences, Suehil'nyye ustroystva khlebopekarnoy promyshlennosti
(Cook Units of the Bread Baking Industry), Giatlogyskopol'nov.

The booklet presents the theoretical bases of the baking process, and the basis for the baking schedule. The booklet includes a classification, general survey, and description of the design of oven units of the bread baking industry, including economic-technical indexes for the basic types of ovens, the method of analytical and graphical computation of the oven chamber, heating apparatus, and ventilation system of an oven unit.

The booklet is intended for engineering-technical, and scientific workers of the bread baking industry.

SO: Seretchivnyye knizki (Script Books), No. 167, 1953, Moscow, (U-6472)

GINZBURG, A.S.; KHMEL'NITSKAYA, A.Z., redaktor; GOTLIB, E.M., tekhnicheskiy redaktor

[Drying apparatus for the bread baking industry] Sushil'nye ustanovki khlebopekarnoi promyshlennosti. Moskva, Pishchepromizdat, 1954. 195 p. (MIRA 7:10)

(Drying apparatus)

(Bakers and bakeries--Equipment and supplies)

Ginzburg, A. S.,

Use of thermographic methods in the study of heating processes in dough. V. I. Nazarov, A. S. Ginzburg, V. Kolpachev, and K. M. Mel'nik. *Trudy Vsesoyuzn. Inst. Pishchev. Prom.* 1954, No. 3, 65-8; *Referat. Zhur.* **MD** *Khim.* 1954, No. 50868.—An endothermal effect was observed in the degradation of starch. Heating curves for dough and temp. curves for baking are given. M. Hosh

(3)

LYKOV, A.V.; AUERMAN, L.Ya.; GINZBURG, A.S.

Investigating the heat and mass exchange in capillary-porous bodies with methods based on the theory of similitude as applied to the processes of drying and baking. Trudy MTIPP 4:5-18 '56.
(MLRA 9:10)

(Heat--Transmission) (Baking)

MINIUM, A. G.

AUERMAN, L.Ya.; OSTROVSKIY, Ya.G.; GINZBURG, A.S.; ZHURAVLEV, N.N.;
FALUNINA, Z.F.; MINAYENKOVA, V.S.; KOZHEVNIKOVA, Ye.P.;
SUVOROVA, M.A.

Use of electric contact heating for preparing scalded wheat
flour mash and for investigating the saccharification of mash.
Trudy MTIPP 4:62-70 '56. (MLRA 9:10)

(Dough) (Starch) (Amylases)

AUERMAN, L.Ya.; OSTROVSKIY, Ya.G.; GINZBURG, A.S.; ZHURAVLEV, N.N.;
KHECHUASHVILI, A.Z.; KVETNIY, F.M.

Zwieback from rye bread baked by electric contact heating.
Trudy MTIPP 4:82-85 '56. (MLRA 9:10)

(Bread)

GINZBURG, A.S.

SHUMAYEV, Fedor Grigor'yevich; MAKLYUKOV, Il'ya Ivanovich; MIKHELEV, A.A.,
dotsent, retsenzent; NOVITSKIY, B.F., dotsent, retsenzent;
GINZBURG, A.S., professor, spetsredaktor; KHMEL'NITSKAYA, A.Z.,
redaktor; KISINA, Ye.I., tekhnicheskij redaktor

[Industrial ovens for baking bread and confectionery] Promyshlennye
pechi khlebopekarnogo i konditerskogo proizvodstva. Moskva,
Pishchepromizdat, 1957. 353 p. (MIRA 10:11)
(Ovens)

GINZBURG, Abram Solomonovich; KRASNOPEVTSEV, N. I., retsenzent.; KHMEI'NITSKAYA,
A.Z., red.; DOBUZHINSKAYA, L.V., tekhn. red.

[Modern types of bakery ovens] Sovremennye konstruktsii khlebo-
pekarnykh pechei. Moskva, Pishchepromizdat, 1958. 154 p. (MIRA 11:11)

(Ovens)

GERZHOY, Arkadiy Petrovich, kand. tekhn. nauk.; SAMOCHETOV, Viktor Fedorovich, inzh;
GINZBURG, A.S., prof., doktor tekhn. nauk, red.; KEYZER, V.A., red.;
GOLUBOVKA, L.A., tekhn. red.

[Grain drying and grain dryers] Zernosushenie i zernosushilki.
3. perer. i dop. izi. Moskva, Izd-vo tekhn. i ekon. kit-ry po
voprosam mukomol'no-krupianoj, kombikormovoi promyshl. i elevatorno-
skladskogo khoz., 1958. 322 p. (MIRA 11:12)
(Grain--Drying)

REPENKO, A.T., red.; GUREVICH, M.S., red.; GINZBURG, A.S., red.;
YERMOLAYEV, V.V., red.; ZHUK, A.A., red.; USPENSKIY, V.V.,
red.; MASLOV, N.A., red.izd-va; TEMKINA, Ye.L., tekhn.red.;
KORNEYEVA, V.I., tekhn.red.

[Section on the economics of the construction industry]
Sektzia ekonomiki stroitel'stva. Moskva, Gosstroizdat,
1958. 369 p. (MIRA 12:6)

1. Vsesoyuznoye soveshchaniye po stroitel'stvu, 3rd, Moscow,
1958.

(Construction industry--Costs)

LEVIN, David Markovich; GINZBURG, A.S., prof., doktor tekhn.nauk, spetsred.;
KHMEI'NITSKAYA, A.Z., red.; DOBUZHINSKAYA, L.V., tekhn.red.

[Thermodynamic theory and design of drying apparatus] Termo-
dinamicheskaya teoriya i raschet sushil'nykh ustanovok. Moskva,
Pishchepromizdat, 1958. 166 p. (MIRA 12:2)
(Thermodynamics) (Drying apparatus)

GINZBURG, Abram Solomonovich; LYKOV, A.V., akademik, retsenzent;
KHMEL'NITSKAYA, A.Z., red.; MURASHEVA, O.I., red.; SOKOLOVA,
I.A., tekhn.red.

[Drying of food products] Sushka pishchevykh produktov.
Moskva, Pishchepromizdat, 1960. 683 p.

1. AN BSSR (for Lykov).

(MIRA 14:4)

(Food--Drying)

GINZBURG, A.S.

"Processes and apparatus of food industries" by V.N.Stabnikova,
V.D.Popova, F.A.Red'ko. Reviewed by A.S.Ginzburg. Sakh.prom. 34
no.10:74-77 O '60. (MIRA 13:10)

(Food industry--Equipment and supplies)
(Stabnikova, V.N.) (Popova, V.D.) (Red'ko, F.A.)

ROSLYAKOVA, O.I.; GINZBURG, A.S.; AUERMAN, L.Ya.

Infrared radiation as a method for the intensification of the
baking process. Trudy MTIPP 16:30-42 '60. (MIRA 16:6)

(Baking)

(Infrared rays—Industrial applications)

GINZBURG, A.S.; BAB'YEV, N.N.; MIKHAYLOVSKAYA, Ye.I.

Experimental study of the contact drying process of some
materials of the canning industry in a single-roller vacuum
dryer. Trudy MTIPP 16:57-66 '60. (MIRA 16:6)

(Food, Concentrated)
(Drying apparatus)

ROSLYAKOVA, O.I.; GINZBURG, A.S.; AMBMAN, L.Ya.

Investigating the bread baking process in the electric field of high frequency currents combined with the application of infrared rays. Trudy MTIPP 16394-160 '60. (MIRA 1056)

(Bread) (Electric ovens)
(Infrared rays—Industrial applications)

ГРИСКОВ, А. С.

Report presented at the Conference on Heat and Transfer, Minsk, USSR, 5-10 June 61.

RM-2852
55

- 270. V. I. Pavlov, I. K. Ivan, Factor of Poles at High Superconducting Cavities.
- 271. A. J. Ede, The Heat Transfer Coefficient for Flow in a Pipe.
- 272. S. J. Brubaker, L. J. Szwedko, Experimental Investigation of Slip and Temperature Jump at Particle Air Flow near the Solid Wall.
- 273. A. M. Devolice, On Some Results of the Investigation of Heat Transfer by Radiation and by Natural Convection.
- 274. A. S. Glushko, O. I. Rudakov, Heat Transfer at the Process of Radiative-Convective Heat Transfer from
- 275. V. A. Bann, Influence of the Mass Transfer Coefficients on Water Temperature Distribution in the Absence of the Radiative-Convective Heat-Transfer Coefficient.
- 276. V. I. Gubov, S. P. Kuznetsov, V. I. Stokov, Investigation of Heat Removal by Liquid Metal Agents on Surfaces of Fuel Elements.
- 277. E. K. Palmlider, Some Practical Problems of Critical Methods of Heat Transfer Coefficient Investigation.
- 278. P. J. Parnall, Application of the Thermodynamic Stability Principles for Heat Transfer Calculations.
- 279. K. I. Nekovod, Generalization of the Newton Law of Cooling of Bodies.
- 280. V. E. Sobolev, Penetration of Heat Transfer through the Wall via Longitudinal Film at Surface Folding.
- 281. A. V. Kalyuzhny, Investigation of Convective Heat Transfer in Axial Flow over Film.
- 282. G. J. Schmalzer, Some Problems of Heat and Mass Transfer Studied in the National Research Institute of Heat Engineering.
- 283. I. T. Zvirin, Investigation of Heat Transfer between Gas and Solid Surface by Means of Analogous Heat Transfer Models.
- 284. K. V. Sukhor, S. S. Davlat, The Theory of Convective and Diffusive Relaxation of a Boundary Layer.
- 285. I. G. Kuznetsov, K. E. Saitov, Critical Heat Flow at Water Boiling in Pipes.
- 286. I. G. Kuznetsov, Application of the Corresponding State Law for Heat Transfer Calculation at Boiling of a Liquid.
- 287. A. S. Glushko, Actual Problems of Boiling of Water.

GINZBURG, A.S.; REZCHIKOV, V.A.

Basic aerodynamic and structural characteristics of a pseudo-
liquefied layer of grain. Inzh.-fiz.zhur. no.5:55-60 My '62.
(MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i
produktov yego pererabotki, Moskva.
(Fluidization)

GINZBURG, A.S.; REZCHIKOV, V.A.

Method for calculating the duration of grain drying in a pseudo-fluidized bed. Inzh.-fiz.zhur. 5 no.8:40-47 Ag '62.

(MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov yego pererabotki, Moskva.

(Grain--Drying) (Fluidization)

GINZBURG, A.S.; DUBROVSKIY, V.P.

Determination of the moisture diffusion coefficient for grainy materials. Inzh.-fiz.zhur. 6 no.10:27-32 0 '63. (MIRA 16:11)

1. Tekhnologicheskiiy institut pishchevoy promyshlennosti, Moskva.

LEBEDEV, Panteleymon Dmitriyevich; MIKHAYLOV, N.M., prof., retsenzent;
~~GINZBURG, A.S.~~, prof., retsenzent; LIKOV, M.V., dots.,
nauchnyy red.; LEONCHIK, B.I., dots., nachnyy red.; LARIONOV,
G.Ye., tekhn. red.

[Calculation and design of drying systems] Raschet i proektiro-
vanie sushil'nykh ustanovok. Moskva, Gosenergoizdat, 1963. 319 p.
(MIRA 16:3)

(Power engineering) (Drying)

GINZBURG, A.S.; PODOL'SKIY, M.V.

Investigating heat and mass transfer in the process of sublimation
drying of liquid materials. Inzh.-fiz. zhur. 7 no.5:28-33 My '64.
(MIRA 17:6)

1. Tekhnologicheskiy institut pishchevoy promyshlennosti, Moskva.

UKOLOV, Vladimir Stepanovich; GINZBURG, A.S., doktor tekhn. nauk,
prof., retsenzent; KAZAKOVA, Ye.D., red.

[Corn drying] Sushka kukuruzy. Moskva, Kolos, 1964. 303 p.
(MIRA 18:9)

L 33269-65 EWT(1)/EPF(n)-2/EMG(v)/EPR Pe-5/s-4/Pu-4 IJP(c) WW/GG
ACCESSION NR: AP5008215 S/0286/65/000/005/0078/0078

AUTHORS: Sermons, G. Ya.; Kalnya', R. K.; Ginzburg, A. S.

TITLE: Pulse method for measuring the flow of electrically conductive liquids.
Class 42, No. 168906

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 78

TOPIC TAGS: electric conductivity, conductive fluid, excitation coil, pulse counter

ABSTRACT: This Author Certificate presents a pulse method for measuring the flow rate of an electrically conducting liquid. The method involves the use of an induced current pulse in the electrically conducting stream. To increase the measurement accuracy, the pulse is determined from the temporary shift of its maximum. The pulse is induced in the measuring coil in relation to a square pulse fed through an excitation coil. This coil is placed on the conduit at a known distance from the measuring coil.

ASSOCIATION: none

SUBMITTED: 16Feb63

NO REF SOV: 000

Card 1/1 *Lo*

ENCL: 00

OTHER: 000

SUB CODE: EM, EC

GINZBURG, A.S.; LEVIN, D.M.; REZCHIKOV, V.A.

New book Fluidized Bed Drying by P.G. Romankov, N.B. Rezhkovskaya.
Khim. prom. 41 no. 2:72 F '65. (MIRA 18:4)

1. Moskovskiy tekhnologicheskii institut pishchev
promyshlennosti (for Ginzburg). 2. Sibirskiy tekhnologicheskii
institut (for Levin). 3. Vsesoyuznyy nauchno-issledovatel'skiy
institut zerna (for Rezhikov, V.A.).

GINZBURG, A.M.; KRASNOROV, V.V.; GOLYUBOV, N.G.

Investigating optical properties of materials treated by thermal radiation. Inzh.-fiz. zhur. 5 no.6:742-746 J. '65. (MIRA 18:7)

1. Tekhnologicheskij institut pishchevyi promyshlennosti, Moskva.

ACC NR: AM6026324

(A)

Monograph

UR/

Ginzburg, Abram Solomonovich

Infrared technology in the food industry (Infrakrasnaya tekhnika v pishchevoy promyshlennosti). Moscow, Izd-vo "Pishchevoy promyshlennost'", 1965. 407 p. illus., biblio., tables. 3300 copies printed.

TOPIC TAGS: ~~biological science~~, food technology, ~~infrared~~^{IR} radiation, *food preservation*

PURPOSE AND COVERAGE: Elements of the theory and technology of infrared heating are set forth. The fundamentals of the theory of heating during infrared drying are discussed. Special emphasis is placed on radiative (optical) characteristics of exposed materials. A considerable part of the book is devoted to the technology of infrared heating and its application to food processing. Data for this text were obtained from the Soviet and foreign scientific literature and from research done by various institutes as well as investigations conducted by the author and his students. The book is intended for engineers and scientists specializing in research and application of infrared radiation. The book may also prove beneficial to students in technical schools interested in the food processing industry.

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UDC: 664.66.085.1

ACC NR: AM6026324

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Ch. 1. Theoretical principles of infrared heating and drying -- 11

Ch. 2. Technology of infrared heating and drying -- 97

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SUB CODE: 06, 20/

SUBM DATE: 18Dec65/

ORIG REF: 148/

OTH REF:046/

Card 2/2

GINZBURG, A. S.

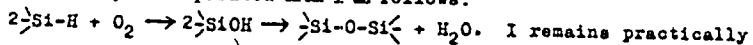
S/191/62/000/005/006/012
B110/B101

AUTHORS: • Kleynovskaya, M. A., Sobolevskiy, M. V., Mikheyev, Ye. P.,
Mal'nova, G. N., Ginzburg, A. S.

TITLE: Purification of industrial methyl-phenyl dichloro silane
obtained by the method of catalytic dehydrocondensation

PERIODICAL: Plasticheskiye massy, no. 5, 1962, 19-22

TEXT: The composition of industrial methyl-phenyl dichloro silane (I) and its purification from impurities was studied. These are: 0.5-2% dimethyl phenyl chlorosilane (boiling point 195°C), 1-3% phenyl trichlorosilane (boiling point 201.5°C) and 1-3% compounds with hydrogen-silicon bond (methyl phenyl chlorosilane, phenyl dichlorosilane, phenyl chlorosilane etc.). Purification combines separation methods with rectification processes. When treating industrial I with dry air at 150°C, the impurities are oxidized at the SiH bond to high-boiling siloxanes, which can easily be separated from I as follows:



Card 1/2

S/191/62/000/005/006/012
B110/B101

Purification of industrial ...

unchanged. At 150°C, air was ducted through at a rate of 250-280 liter/hr and a ratio of 4 liter air per g I. In order to separate phenyl trichlorosilane from I, partial esterification with isobutyl alcohol (6-8% of the weight of the fraction) was carried through at 40-80°C with subsequent heating to 120-150°C. Dimethyl phenyl chlorosilane was separated from I in a packed column with 25 theoretical plates. The fraction with dimethyl phenyl chlorosilane, ~26-35% of the total charge, may be used for the production of organosilicon varnishes, in the same way as I. I is then distilled off at a reflux ratio of 15-20. The residue of 3-6%, containing polysiloxanes may also be used for organosilicon varnishes. Purified I had the following characteristics:

$n_D^{20} = 1.5182-1.5186$; $d_4^{20} = 1.1762-1.1782$; Cl content = 37.00-37.39%;
Si content = 14.58-14.82%, $MR_D = 49.23-49.28$. There are 3 tables.

Card 2/2

GINZBURG, A.S.

First International Congress on Chemical Engineering (CHISA)
held at Brno. Inzh.-fiz.zhur. 6 no.2:133-138 F '63.

(MIRA 16:1)

(Chemical engineering--Congresses)

157 AND 158 INDEXES PROCESSES AND PROPERTIES INDEX 160 AND 170 INDEXES

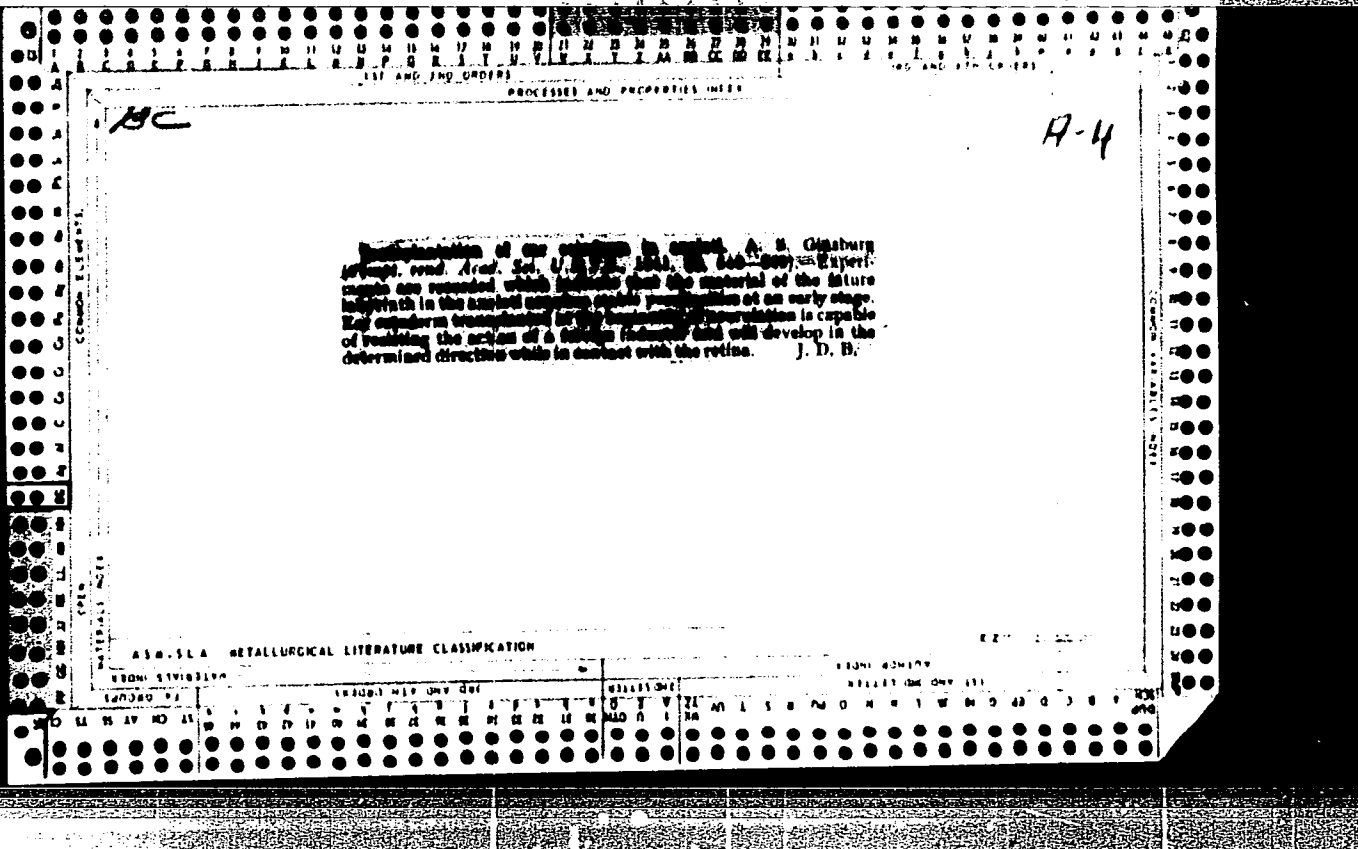
GINSBURG, A.S. L-7

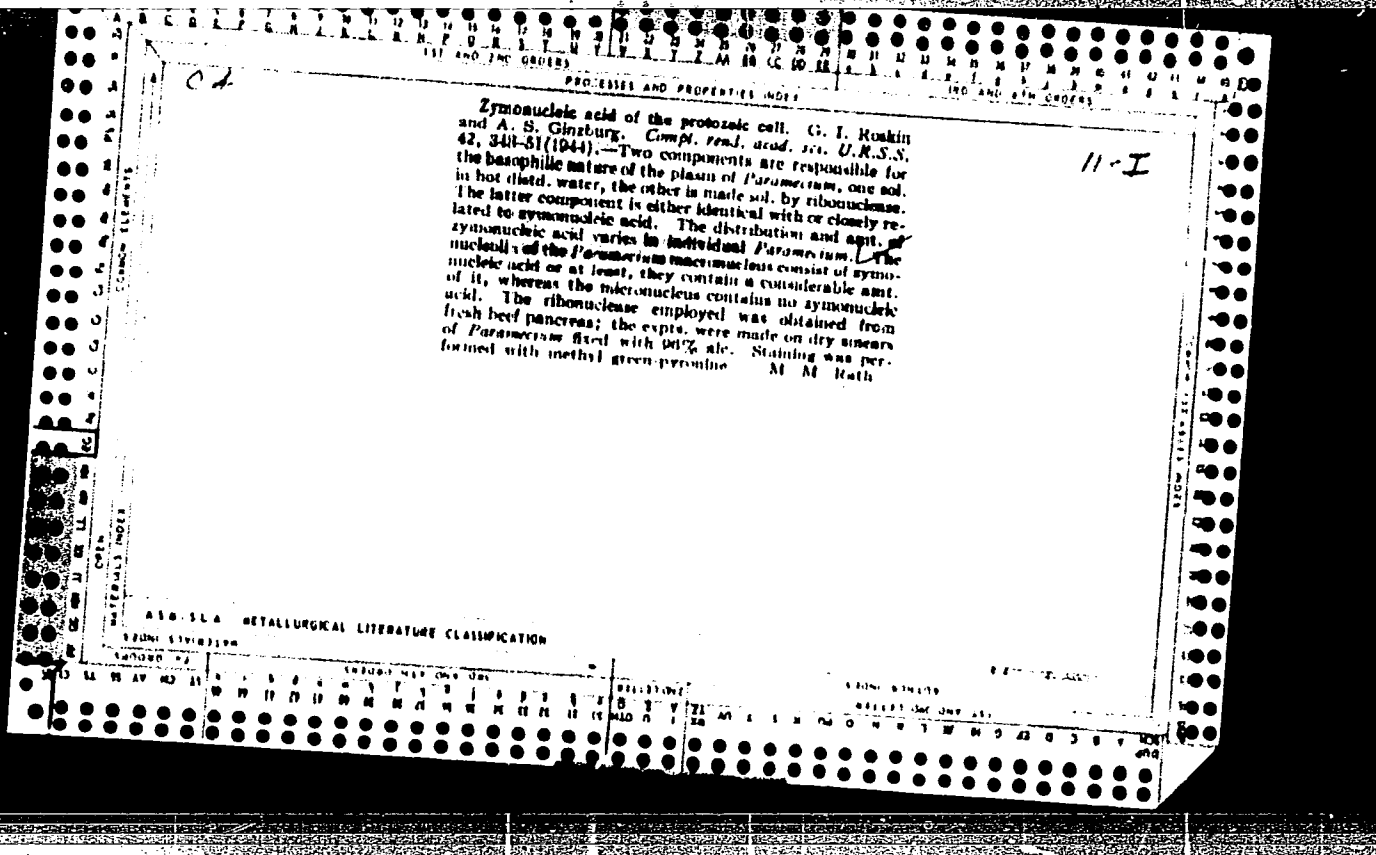
B Cell *Various*

Data on determination of ear in *Triton cristatus*. A. S. Ginsburg (Compt. rend. Acad. Sci. U.R.S.S., 1959, 28, 370-373).—Retoderm from the ear region of an embryo of *T. cristatus*, at the stage of an early or middle neurula, transplanted to the eye region of an older embryo of the same species, forms only undifferentiated epithelial vesicles. The same material forms a lens if put in contact with the optic cup. At the later stages of late neurula and of closure of the neural folds, the same ectodermal tissue in sp. and, when transplanted to the eye region, forms vesicles with characteristic ear structure, e.g., endolymphatic duct. W. F. F.

ASS-514 METALLURGICAL LITERATURE CLASSIFICATION

157 AND 158 INDEXES PROCESSES AND PROPERTIES INDEX 160 AND 170 INDEXES





PROCEDURES AND PROPERTIES INDEX

11D

O.K.

39:4913

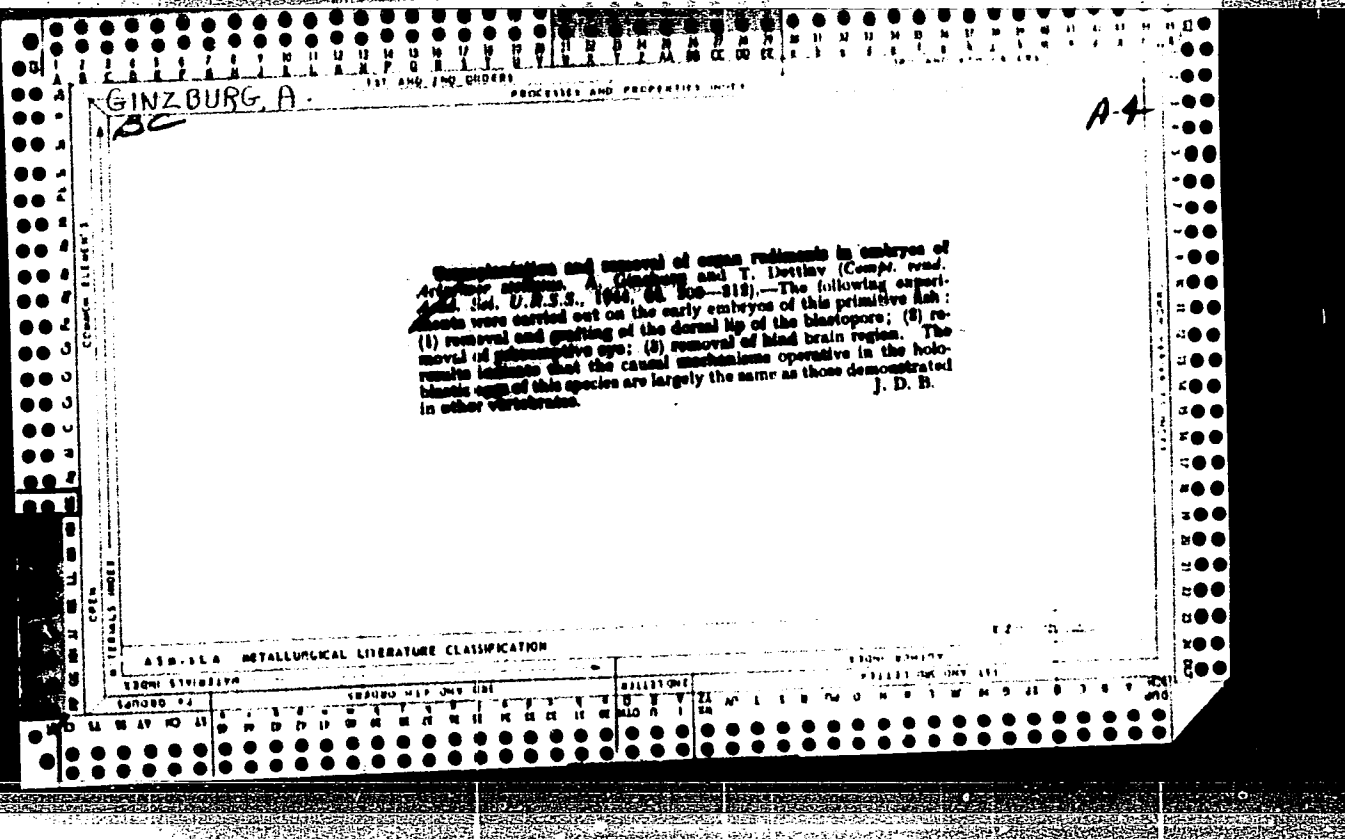
Ca

isophilic nature of protoplasm in protozoa as connected with the occurrence in the cell of symnucleic acid. G. I. Roskin and A. S. Ginsburg. *Compt. rend. acad. sci. U.R.S.S.* 43, 123-5 (1944). The isophilic nature of the protoplasm of the *Paramecium*, *Opalina ranarum*, amoebae of the limax type, *Trypanosoma lewisi*, cysts of *Tricostema* and *Plasmodium vivax* is based largely on the presence of varying concentrations of cytoplasmic nucleic acid. Also in *Dobiasy Abad. Nouv. S.S.S.R.* 43, 126-9 (1944). Maurice M. Rath

ferrous

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS MOLES



GINZBURG, A.

22609. GINZBURG, A. Iz opyta kliniki erevanskogo zoovetinstituta. (lecheniye nezaraznykh bolezney). Veterinariya, 1949, No. 7, S. 28-29.

SO: LETOPIS' No. 20, 1949

DETLAF, T.A.; GINZBURG, A.S.

Analysis of sources of extrusion of eggs of the stellated sturgeon during the incubation period. Trudy Inst.morf.zhiv. no.5:184-201 '51.

(MIRA 6:9)
(Sturgeons)

GTRSPPL Vol. 5-No. 1 Jan. 1952

Detlaf, T.A. and Ginzburg, A.S. (A.N. Severtsov Institute of Animal Morphology, U.S.S.R. Academy of Sciences), Sources of non-fertilizability of sturgeon eggs upon spawning in a river estuary. 1065-8

anology

Akademiya Nauk, S.S.S R., Doklady

Vol. 78, No. 5, 1151

GINZBURG, A. S.

H/5
728.7
.D4

Zarodyshevoye razvitiye osetrovyykh ryb (sevryugi, osetra, i belugi) v svyazi s voprosami ikh razvedeniya (Embryological development of sturgeons in connection with the problems of their breeding, by) T. A. Detlaf i A. S. Ginzburg. Moskva, Akademkniga, 1954.

215 p. illus., diagra., tables.

"Literatura": p. 196 - (204)

At head of title: Akademiya Nauk SSSR. Institut Morfologii Zhivotnykh.

GINZBURG, A.S.

Variability in the location of fissural sulci in the eggs of sturgeons.
Dokl.AN SSSR 95 no.5:1117-1120 Ap '54. (MLRA 7:4)

1. Institut morfologii zhivotnykh im. A.N.Severtsova Akademii nauk SSSR.
Predstavleno akademikom K.I.Skryabinym.
(Embryology--Fishes) (Sturgeons)

USSR/General Biology. Individual Development. Sexual Cells. D-4

Abs Jour : Ref Zhur-Biol., No 16, 1958, 71573

Author : ~~Ginzburg, A. S.~~

Inst : AS USSR.

Title : Fatty Metabolism in the Ovocytes and Eggs of
the Starred Sturgeon.

Orig Pub : Dokl. AN SSSR, 1956, 111, No 1, 236-239

Abstract : Even before the accumulation of the yolk during the process of dyeing with sudan III and black sudan V, fatty impurities (FI) develop in the young ovocytes (O) from the ovaries of sturgeons in the II and IV stages of maturity. In the smallest O, with a diameter of 70-80 μ , there are some fatty droplets located near the nucleus on one side.

Card : 1/3

USSR/General Biology. Individual Development. Sex. Colls. B-4

Abs Jour : Ref Zhur-Biol., No 16, 1958, 71573

of all the tract of their development into a period of slight growth (general for oogenesis and spermatogenesis) and a period of great growth, inherent only in oogenesis, in the course of which C accumulates nutrients of various kinds. -- G. N. Ignat'yeva

Card : 3/3

15

GINZBURG, A. S.

20-2-60/60

AUTHOR: Ginzburg, A. S.

TITLE: **Monospermy in Sturgeons During Normal Fertilization and the Consequences of Penetration Into the Egg of Supernumerary Spermatozoa** (Monospermiya u osetrovykh ryb pri normal'nom oplodotvorenii i posledatviya proniknoveniya v yaytso sverkhchislennykh spermiyev)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2, pp. 445-447 (USSR)

ABSTRACT: If the eggs of sturgeons are impregnated with strongly diluted sperm, then the development of the eggs, under favorable conditions, as a rule takes a normal course. They divide into 2, 4, 8 etc. blastomeres. On the other hand, if a weakly diluted sperm is used, there frequently occur disturbances in the process of egg division, supernumerous blastomeres are formed, and later many eggs perish. The author of the present paper assumes that in sturgeons, as well as in anurans, supernumerous blastomeres are caused by penetration of supernumerous sperms. However, in the sterlet observations were

Card 1/2

20-2-60/60

Monospermy in Sturgeons During Normal Fertilization and the Consequences of Penetration Into the Egg of Supernumerary Spermatozoa

made which point exactly in the opposite direction. In order to find an answer to this question, eggs that had been impregnated under different conditions were investigated from a cytological point of view. The results obtained lead the author of the paper under review to the conclusion that normal impregnation in sturgeons is monospermous. Penetration of sperms in greater number, as in impregnation with weakly diluted sperm and at "dry" impregnation, represents a pathological polyspermy as it is accompanied by disturbances in the egg division and in the entire subsequent development. There are 1 figure (10 microreproductions), 1 table and 8 references, 7 of which are Soviet.

ASSOCIATION: Institute of Animal Morphology imeni A. N. Severtsov, AS USSR (Institut morfologii zhivotnykh im. A. N. Severtsova Akademii nauk SSSR)
PRESENTED: February 21, 1957, by I. I. Shmal'gauzen, Member of the Academy
SUBMITTED: February 12, 1957
AVAILABLE: Library of Congress
Card 2/2

20-4-60/60

Ginzburg, A.S.

AUTHOR
TITLE

The Time of Contact Establishment Between the Egg and the Spermatozoon in Sturgeons.
(Vremya ustanovleniya kontakta spermiya s yajcom oplodotvoronii u osetrovyykh ryb.)

Doklady Akademii Nauk SSSR, 1957, Vol. 115, Nr 4, pp. 845-848 (USSR)

PERIODICAL
ABSTRACT

At it was shown earlier the fertilization of sturgeons is normally monospermic. In the case of spawn fertilization with slightly diluted sperm fertilization by several spermatozoa was frequently observed. In order to understand the way of precaution against the penetration of excess sperms into the ovum under normal circumstances the initial stage of the process of fertilization must be studied precisely. This work aims at the investigation of the period from the time of the adding of sperm to the spawn to the contact between the sperms and the ova. For this purpose the author has inactivated the sperms and observed the fertilized eggs; 2) he has fixed the eggs for the cytological examination and observed the passage of the sperms through the little micropylar channels at different times after the fertilization. Sperms of the "star sturgeon" (*Acipenser stellatus* Pall.) and of the

20-4-60/60

The Times of Contact Establishment Between the Egg and the Spermatozoon in Sturgeons.

Black Caspian Sea sturgeon (*Ac. guldensmidtii colchicus* V.Marti) which were obtained by means of hypophysial injections served for the experiments. Experiments for the inactivation of sperms. 7 different surface active prepartes were tested. The washing powder "Novost" - Detergent was the most useful. It contains sulphoethers of the cetyl- and stearyl alcohol. This detergent reactivated sperms within less than 0,5 seconds without damaging the eggs. Thus, no fertilization took place in 2434 eggs investigated. An important part of the eggs were fertilized already during the first seconds after the adding of the sperm no matter whether the sperms were highly diluted or highly concentrated. The frequency of the cases of polyspermic fertilization increased rapidly in the first seconds after the fertilization. After the climax of the percentage of the fertilization the polyspermic fertilization ceased to increase. Results of the cytological investigation: The structure of the egg of the sturgeons and the fertilization process is described. The comparison of the knowledge of the structure and of the fertilization with the results of the above experiments led to the conjecture that the contact between the sperm and the zytoplasm of

CARD 2/4

... contact of the sperm ... sturgeons ... animals. The formation ... or fibres with other animals ... described.

20-4-60/60

The Time of Contact Establishment Between the Egg and the Spermatozoon in Sturgeons.

There are 2 figures and 3 Slavic references.

ASSOCIATION:

Institute for Animal Morphology imeni A.N. Severtsov AN USSR (Institut morfologii zhivotnykh imeni A.N. Severtsova Akademii nauk SSSR)

PRESENTED:

By I.I. Shmal'gauzen, Academician, April 23, 1957

SUBMITTED:

April 19, 1957

AVAILABLE:

Library of Congress.

CARD 4/4

GINZBURG, A.S.

Fertilization in acipenserid fishes. Report No.1: Fusion of gametes.
TSitologiya 1 no.5:510-526 S-0 '59. (MIRA 13:2)

1.Laboratoriya eksperimental'noy embriologii Instituta morfologii
zhivotnykh AN SSSR, Moskva.

(FERTILIZATION (BIOLOGY)) (STURGEONS)

GINZBURG, A.S.

Blocking of polyspermy in the fertilization of sturgeon and salmon
eggs and the role of cortical granules (alveoles) in this process.
Zhur. ob. biol. 21 no.6:419-429 N-D '60. (MIRA 14:1)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR,
Moskva.

(FERTILIZATION (BIOLOGY))

(FISHES--PHYSIOLOGY)

GINZBURG, A.S.

Blocking mechanism of polyspermy in echinoderms. Dokl. AN SSSR
152 no.2:501-504 S '63. (MIRA 16:11)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR.
Predstavleno akademikom Yu.A.Orlovym.

*

DETLAF, T.A.; GINZBURG, A.S.

Acrosomal reaction in sturgeons and the role of calcium ions in the coupling of gametes. Dokl. AN SSSR 153 no.6: 1461-1464 D '63. (MIRA 17:1)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR. Predstavleno akademikom I.I. Shmal'gauzenom.

BORSUK, R.A., red. (Moskva); BOCHAROV, Yu.S., red. (Moskva);
GINZBURG, A.S., red.; YEMEL'YANOV, S.V., red.; LANGE,
A.B., red.; LARTONOV, V.F., red.; MANUILOVA, N.A., red.;
MATVEYEV, B.S., red.; PODDUBNAYA-ARNOL'DI, V.A., red.;
POTEMKINA, D.A., red.; TRANKOVSKIY, D.A., red.; USTINOVA,
Ye.I., red.; SHMIDT, G.A., red.; SHREDET, V.N., red.;
NECHAYEVA, Ye.G., red.

[Problems in modern embryology] Problemy sovremennoi embri-
ologii. Moskva, Izd-vo Mosk. univ., 1964. 565 p.
(MIRA 17:5)

L 38722-66

ACC NR: AP6014152

(A)

SOURCE CODE: UR/0114/65/000/012/0006/0009

AUTHOR: Ginzburg, A. Z. (Engineer)

ORG: None

30
3B

TITLE: Use of Weibull distribution for calculating the reliability of diesel components

SOURCE: Energomashinostroyeniye, no. 12, 1965, 6-9

component life expectancy, mechanical failure,

TOPIC TAGS: statistic distribution, engine piston, engine cylinder, engine reliability, reliability engineering, marine engine, diesel engine/ 5D50 diesel engine

ABSTRACT: Calculations based on Weibull distribution are proposed for determining the rate of failure of various diesel components since this distribution law takes account of the three cases encountered in operational practice: 1. A reduction in rate of failure with time (for parts which fail during the break-in period), 2. An increase in rate of failure (for the majority of components) and 3. A relatively uniform distribution of rate of failure throughout the entire service life of the engine. Statistical tests on components of various marine diesel engines show entirely satisfactory agreement between the empirical and theoretical distribution for the service life of the components. Curves are given showing the reliability characteristics for some of these components. Data on the 5D50 diesel engine used in whale-

Card 1/2

UDC: 621.436:621.3.019.32.001.24

L 38722-66

ACC NR: AP6014152

boats show an average piston lifetime of 12800 hours while the average lifetime of cylinder sleeves in this engine is 8870 hours. The rate of failure for pistons shows a continuous increase with time of service due to thermal stresses caused by irregular operating conditions during whaling runs and impairment of piston rings. The proposed reliability calculations may be used to set up preventative maintenance schedules on the basis of predicted component failure. Orig art. has: 2 figures, 5 tables, 9 formulas.

SUB CODE: 14, 21/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 001

Card 2/2

ZVEGINTSEVA, G.B.; GINZBURG, B.G.; KORCHILOVA, Ye.Ya.; DAVYLOVA, Z.I.;
DAVANKOV, A.B.; ZUBAKOVA, L.B.

Recovery of phenol from sulfate liquor wastes of a phenol
sulfonation plant by means of pyridine-containing anion
exchangers. Zhur. prikl. khim. 38 no.5:1102-1105 My '65.
(MIRA 18:11)

L 24720-66 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6009511

SOURCE CODE: UR/0413/66/000/005/0020/0021

AUTHOR: Ivanova, V. A.; Genkin, N. D.; Vorob'ev, V. D. Ginzburg, B.G.; Zharavin, K. N.; Korchilava, Ye. Ya.; Savost'yanova, N. G.

ORG: none

23
B

TITLE: Preparation of Captax-2-mercaptobenzothiazole. Class 12, No. 179306 announced by the Scientific Research Institute of Organic Semifinished Products and Dyes and the Berezniki Plant of Aniline Dyes (Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley i Bereznikovskiy anilinokrasochnyy zavod)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 20-21

TOPIC TAGS: captax, mercaptobenzothiazole, aniline, aniline dye

ABSTRACT: An Author Certificate has been issued describing a method for preparing Captax-2-mercaptobenzothiazole by melting aniline, sulfur, nitrobenzene, carbon bisulfide at elevated temperatures and pressure, followed by dissolving the melt in a water solution of alkali hydroxide or milk of lime, purifying the solution obtained and separating the product. To improve the quality of Captax, decontaminate the waste water and make it possible to use the solution

2

Card 1/2

UDC: 547.789.6:2.07

L 24720-66

ACC NR: AP6009511

of the alkali Captax melt for the production of sulfuramides, the purification is conducted by extraction with benzene polychlorides, chlorobenzene, benzene, or their water emulsions, followed by removal of the residue of the solvent by conventional methods. [LD]

SUB CODE: 11/ SUBM DATE: 08Aug64/

Card 2/2 fv

Ginzburg, B.I.

1X-3-4/21

AUTHORS: Ginzburg, B. I., Vulykh, A.K., Licoyenko, I.I. and
Klimenko, D. G.

TITLE: Mechanical Gland sealing of a hot-blast stove burner.
(Mekhanicheskoye sel'nikovoye uplotneniye gorelki
vozdukhonagrevatelya).

PERIODICAL: Metallurg, 1958, No.3, pp. 7-10 (USSR).

ABSTRACT: The authors describe how at the imeni Petrovskiy
(imeni Petrovskogo) works, where lack of space prevents
the use of standard isolating devices for the Cooper
stoves, a mechanically clamped seal with interchangeable
connecting pipe and lid was developed and introduced.
The arrangement is moved with a monorail and the joint
is liberally greased. At the end of the "on gas"
period the connecting pipe is moved back and the lid
is bolted on.
There are 3 figures.

ASSOCIATION: Petrovskiy Works. (Zavod im. Petrovskogo).

AVAILABLE: Library of Congress.

Card 1/1

ALEKSANDROV, V.Ye.; ARTSIMOVICH, G.V., kand.tekhn.nauk; GINZBURG, B.I.,
gornyy inzhener

Complete use of mining bore bits. Ugol' Ukr. 7 no.10:27-28
0 '63. (MIRA 17:4)

1. Nachal'nik upravleniya byuro vzaimnykh raschetov Donetskogo
soveta narodnogo khozyaystva (for Aleksandrov). 2. Institut
sverkhtverdykh materialov Gosplana UkrSSR (for Artsimovich,
Ginzburg).

BAKUL', V.N., kand. tekhn. nauk; GINZBURG, B.I., inzh.

Prices for diamond powders and synthetic diamond tools. Mashino-
stroenie no.3:95-97 My-Je '64.

(MIRA 17:11)

BOGOMAZ, D.L.; GINZBURG, B.I.

Economic efficiency of the use of synthetic diamonds in grinding
and lapping hard-alloy cutting tools. Mashinostroitel' no.10:
24-25 0 '64. (MIRA 17:11)

BAKUL', V.N., kand.tekhn.nauk; ZAKHARENKO, I.P., kand.tekhn.nauk; GINZBURG, B.I.,
inzh.

Introducing synthetic diamonds in the industry of the Ukrainian
S.S.R. Mashinostroenie no.4:38-41 JI-Ag '65.

(MIRA 18:8)

GINZBURG, B.I.; TSIMBALYAK, V.I.; MURPHY, M.S.

Performance of layers with fast water circulation. Metallurgy
10 no.7:20-21 31 '65. (MIRA 18:7)

GINZBURG, B.L.

Epidemiologic peculiarities of diphtheria in Vitebsk District.
Zdrav. Belor. 5 no.2:43-44 F '59. (MIRA 12:7)

1. Iz Vitebskoy rayonnoy sanepidstantsii.
(VITEBSK DISTRICT--DIPHTHERIA)

GINZBURG, B. L.

"Calculation of Potential and Velocity of Flow Around a Grid of Circular
Cylinders by a Plane Parallel Flow." Trudy Ts KTI 18 (1950)

GINZBURG, B. L.

380. Ginzburg, B. L. Generalization of various interpolation-formulas for a case of unequal intervals (in Russian), Inzhener, Sbornik, Aka. Nauk SSSR 12, 201-220, 1952.

This paper gives formulas for interpolation, numerical differentiation, and numerical integration expressed by means of divided differences. Using a notation for divided differences. Using a notation for divided differences somewhat like Sheppard's notation for central differences in the case of equally spaced abscissas, the author obtains for unequally spaced abscissas the generalizations of Newton's two interpolation formulas. By changes of notation (based essentially on Sheppard's rules) he goes on to get the generalizations of Gauss's Stirling's, Bessel's and Everett's formulas. From these, in turn, he gets formulas for numerical differentiation and integration in terms of divided differences.

Courtesy of Mathematical Reviews

W.E. Milne, USA

*ppp
3-1-55*

GINZBURG, B. L.

USSR/Mathematics - Numerical Computations

Card 1/1

Author : Ginzburg, B. L.
Title : Formulas for numerical quadrature that are most convenient in applica-
tion.
Periodical : Usp. mat. nauk, 9, No 2(60), 137-142, 1954
Abstract : Treats quadrature formulas, which were found as early as 1950 by the
author, in the following form:

$$\int_{-1}^1 f(x) dx = 2 \sum A_i f(x_i) + R_i$$

where the factor 2 (the length of the interval makes the sum of
coefficients A_i equal to unity. Latest reference: B. L. Ginzburg,
"Application of general formulas of numerical quadrature to computation
of hydrodynamic lattice, "Trudy LPI [Works of the Leningrad Polytechnic
Institute], No 2, 1953.

Submitted : November 22, 1952

USSR/MATHEMATICS

USSR/Mathematics - Bibliography

FD-1186

Card 1/1 Pub. 118-27/30

Author : Ginzburg, B. L. (reviewer)

Title : Review of the book 'Chislennyye metody matematicheskogo analiza' [Numerical methods of mathematical analysis], Sh. Ye. Mikeladze, State Technical Press, 1953, 528 pp, 4000 copies, 21 rubles

Periodical : Usp. mat. nauk, 9, No 3(61), 274-276, Jul-Sep 1954

Abstract : Five main divisions of the book: Finite differences and sums (I-IV, XIX); Interpolation and numerical differentiation (VI, X-XII); Numerical integration and summation (XIII-XVI); Approximation and method of least squares (V, VII-IX); Interpolation, numerical integration and summation of functions of many variables (XVII-XVIII). The reviewer recommends the book as a reference for those already familiar with applied mathematics, but not as a textbook for students. He states that in quantity this book exceeds all other similar books in Russian.

Institution :

Submitted :

GINZBURG, B.L., inzhener.

Numerical method for checking the evenness of runner blades
of hydraulic turbines. *Известия восточного машиностроения* no.2:19-24 P
'56. (Hydraulic turbines--Blades) (MLRA 9:6)

Ginzburg, B.L.

16(1)

PHASE I BOOK EXPLOITATION SOV/2508
Matematicheskoye prosvetshcheniye; Matematika, Yeye prosvetshcheniye.
Matematika i istoriya, vpp. (Mathematical Education
Moscow, Oostekhnizdat, 1959. 15,000 copies printed. N.Y. 4)

Ed.: I.M. Bronshteyn, Editorial Board of Series: I.N. Bronshteyn,
A.I. Markushevich, I.M. Yaglom; Tech. Ed.: S.M. Akhmanov.
PURPOSE: This book is intended for persons without an extensive
mathematical education who are interested in trends in con-
temporary mathematics. The book may be useful to high school
mathematics teachers.

COVERAGE: The book consists of articles, reviews, and scientific
and methodological reports in Russian, English, and scientific
other languages. The state of which are translated into
including applications. The state of which are translated into
schools and mathematical development, teaching of mathematics,
One section deals with scientific and pedagogical life in the
USSR and another contains reviews of certain mathematical publi-
cation. Some mathematical background is necessary to understand
the book; certain articles require a knowledge of higher mathe-
matics.

Mathematical Education; (Cont.)

SOV/2508

III. SCIENTIFIC-METHODOLOGICAL REPORTS
(Teaching Experience and Pedagogical Experimentation)

Aramanovich, I.O., and S.I. Zetel'. On an Approximation of
Graphs of Functions by Curves of the Second Order [Comics] 179
Gradstein, I.S. (Deceased) On One Sufficient Test of Indefinite
Integrals Turning to Zero 189

Segal, B.I. On the Local Limit Theorem in Probability Theory 193
Tokshe, K. (Hungary) Remarks on the Theory of Geometric Construc-
tions 197

Brief Reports:
1. Baik, M.R. Computing a Sum by Weighting 203

2. Ginzburg, B.L. Simplification of Multiplication From Left 205

3. Kuzhal', A.V. A Study of the Roots of a Cubic Equation 207

Card 5/8

WILSON, B.L. (Hanson)

Standardize the multiplication from left to right. Mat. prog. no.:
100000000. (PIR. 19:11)
(Multiplication)

GINZBURG, B.L.

"Dictionary of geographical names" by M.S. Bodnarskii. Reviewed
by B.L. Ginzburg. Geog. v shkole 22 no.2:90-91 Mr-Apr '59.
(MIRA 12:6)

(Geography--Dictionaries)
(Bodnarskii, M.S.)

GINZBURG, B.L.

Cities of the world with a population of more than one
million. Vop.geog. no.45:246-252. '59. (MIRA 12:5)
(Cities and towns)

SHIROKHIKH, F.T.; GINZBURG, B.L.

Strengthening the material base of the public health system in a task for all. Zdrav. Bel. 7 no. 4:18-20 Ap '61. (MIRA 14:4)

1. Predsedatel' ispolkoma Vitebskogo rayonnogo Soveta deputatov trudyashchikhsya (for Shirokikh). 2. Glavnyy vrach Vitebskogo rayona (for Ginzburg).

(VITEBSK DISTRICT—PUBLIC HEALTH, RURAL)

GINZBURG, B.M.

Immunogenic properties of serum from psoriasis patients.
Sbor.nauch.rab.Bel.nauch.-issl.kozhno-ven.inst. 4:130-132 '54

(MIRA 11:7)

(PSORIASIS)

(IMMUNITY)

GINZBURG, B.M.

Use of human complement in the Wasserman test. Sbor.nauch.rab.
Bel.nauch.-issl.kozhno-ven.inst. 4:221-226 '54 (MIRA 11:7)
(SYPHILIS--DIAGNOSIS--WASSERMAN REACTION)

FRENKEL', S.Ya.; KUKHAREVA, L.V.; GINZBURG, B.M.; GASPARYAN, K.A.; VOROB'YEV, V.I.

Effect of the load on the transition order-disorder in native collagen fibers. *Biofizika* 10 no.5:735-742 '65.

(MIRA 18:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad i Institut tsitologii AN SSSR, Leningrad.

FRENKEL', S.Ya.; KUKHAREVA, L.V.; GINZBURG, B.M.; VOROB'YEV, V.I.

Γ as diagram of collagen and the interpretation of the heat of order-disorder transition in water. Dokl. AN SSSR 165 no.1:149-152 N '65. (MIRA 18:10)

1. Institut tsitologii AN SSSR i Institut vysokomolekulyarnykh soyedineniy AN SSSR. Submitted April 29, 1965.

GINZBURG, B. M. and KONOVOLO, B. P.

"Forecast Methods of Ice Cover Breaking of Ob Yenisey".
Tr. Tsent. in-ta, Prognozov, No 40, pp 56-61, 1955.

The causes of cracking of the ice cover of rivers flowing from the south to the north are analyzed. Observations of positive air temperatures are considered essential. (RZhFiz, No 11, 1955)

SO: Sum No 884, 9 Apr 1956

GINZBURG, B.M.

Long-range forecasting method for freezing and opening of rivers.
Meteor. i gidrel. no.2:10-14 F '56. (MIRA 9:6)
(Ice on rivers, Lakes, etc.)

GINSBURG, B.M.

3(7) **PROB: 1988 INTRODUCTION** 007/2087

Research, Central Army Institute Prophecy

Проблемы гидрометеорологической гидрологии (Problems in Hydrological Forecasting) Moscow, Gidrometeoizdat (ed.) 1979. 17 p. (Series: Itai Itai, 799. 90) 800 copies printed.

Sponsoring Agency: USSR. Glavnyy upravleniye gidrometeorologicheskoy sluzhby.

Ed. (title page): A. B. Malashov (Ed. (series book): V. I. Tarkhanov) Mosk. M.: I. B. Earth.

NOTE: This issue of the Institute's transactions is intended for hydrologists engaged in forecasting work.

CONTENTS: This collection of articles discusses techniques used in hydrological forecasting. Particular attention is given to the river flow cycles of rivers in the USSR. The importance of forecasting of the spring high-water period in the USSR is stressed. Methods forecasting techniques and ways of estimating discharge for rivers are discussed. 30 personalities are mentioned. References accompany individual articles.

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Malashov, I. V. Taking Into Account the Effect of Wind on Water Reservoir Forecasting in Short-Range Forecasting 28

Bogov, A. P. Methods of Long-Range Forecasting of the Date of Appearance of Floating Ice on the Kolyma, Inda, and Selkima Rivers 36

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Kopylov, V. P. Long-Range Forecast for the Water Volume and Water Content During the Spring High-Water Period in the Izvolskaya and Kizilovskaya Rivers 50

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37471
Vostochnyye Gory...
1957...
21000 copies printed.

Sponsoring Agency: Glavvozvrazheniya gidrometeorologicheskoy
sluzhby pri Sovetskom Ministre SSSR.
Resp. Ed.: V.A. Dryvayev; Ed.: V.S. Protopov; Tech. Ed.: M.I.
Brazhina.

PURPOSE: This work is intended for meteorologists, hydrologists, and
hydrophysicists, particularly those engaged in the study of snow
and ice and evaporation processes.

COVERAGE: This book contains papers on hydrophysics which were pre-
sented and discussed at the Third All-Union Hydrological Conference
in Leningrad, October 1957. The Conference published 10 volumes
on various aspects of hydrology of which this is number 3. The
editorial board in charge of this series includes: V.A. Dryvayev
(Chairman), O.A. Kuznetsov, V.V. Bliznyak (deceased), O.M. Borunak,
M.K. Gerasimov, I.K. Davydov, A.P. Domantitskiy, O.P. Kalinin, S.M.
Kotlyarskiy, B.I. Kudelin, L.P. Manoil, M.P. Menkel', B.P. Orlov,
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A.I. Chebotarev, and S.K. Cherkavskiy. This volume is divided in-
to 2 sections; the first contains reports from the subsection
for the study of evaporation processes, and the second contains
reports from the snow and ice subsection. References accompany
each article.

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GINZBURG, B.M.

Brief survey of methods used in long-range forecasting of the
break-up of ice and freezing of rivers. Trudy TSIP no.90:3-
24 '59. (MIRA 12:8)
(Ice on rivers, lakes, etc.)

GINZBURG, B.M.; BALASHOVA, I.V.

Methods of calculating and forecasting the breakup of reservoirs.
Trudy TSIP no.100;3-64 '60. (MIRA 14:5)
(Ice on rivers, lakes, etc.)

GINZBURG, B.M.

Method for long-range forecasting of the opening of rivers in the
central regions of the European part of the U.S.S.R. Trudy
TSIP no.114:36-44 '61. (MIRA 14:10)
(Ice on rivers, lakes, etc.)

GINZBURG, B.M.

Characteristics of tensile testing with breaking machines.
Plast.massy no.3:49-53 '64. (MIRA 17:3)

ACCESSION NR: AP4045026

S/0191/64/000/009/0047/0049

AUTHOR: Ginzburg, B. M., Kopy*lova, Ye. L.

TITLE: Temperature dependence of the mechanical properties of extruded Penton films

SOURCE: *Plasticheskiye massy**, no. 9, 1964, 47-49

TOPIC TAGS: bischloromethyloxacyclobutane, polymer strength, polymer elongation, polymer film, polymer extrusion, thermoplastic polymer, polymer viscosity, Penton, Pentoplast

ABSTRACT: A new thermoplastic material, Penton (polymer of 3,3-bis(chloromethyl)-oxacyclobutane), was investigated in the form of extruded films. First, however, the mol. weight was determined by the reduced viscosity of a 0.5% Penton solution in cyclohexanone at 293K. The viscosity of one batch was 2.53 dl/g (mol. wt. above 200,000) and that of the other was 0.93 dl/g (mol. wt. about 80,000). The films were extruded from granulated material at 483K, the temperature of granulation being 463K. The slight variation in viscosity of Penton during extrusion is tabulated. The temperature dependence of the yield point, tensile strength and relative elongation at break was then investigated over a temperature range of 193-438K. The thickness of the test strips was 0.05-0.10 mm and the experiments were carried out on a Schopper tester of the type FP-3.

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ACCESSION NR: AP4045026

Four temperature ranges can be distinguished on the basis of the curves shown in Fig. 1 of the Enclosure. At low temperatures, the mechanical properties change only slightly. In the second temperature range (275-300K), greater changes occur, especially for elongation. In the third temperature range (296 - 428K) the elongation increases considerably, almost linearly with temperature, but the yield point and strength decrease. Finally, over a temperature range of 423-438C, all the mechanical properties vary considerably. The temperature dependence of the mechanical properties of samples cut in the longitudinal and transverse directions was qualitatively the same. In the transverse direction, the brittleness temperature shifted toward higher temperatures ($299 \pm 2K$), the strength decreased slightly and the elongation at break increased slightly near 423K. The temperature dependence of these properties for Penton plastics with a reduced viscosity of 0.9 dl/g showed the same characteristics in the extrusion direction. Great variation in the data for Penton plastics could only be found near the temperatures of brittleness and melting. Below these temperatures, the mechanical properties of the film are comparable to those of cast Penton, and above them, the properties are improved. "The authors are indebted to A. V. Kupfer for the initiation of this investigation, the supply of the polymer samples and valuable comments. They also thank A. V. Fedeyeva for participating in the evaluation of this work and V. A. Denisova for helping to carry out the experiments. Orig. art. has: 4 figures and 1 table.

Card 2/4

ACCESSION NR: AP4046026

ASSOCIATION: None

SUBMITTED: 00

ENCL: 01

SUB CODE: MT

NO REF SOV: 002

OTHER: 004

Card

3/4