

GRUBERSKI, Tadeusz; MALANOWSKI, Stanislaw

The distillation process of quinoline bases in tar oils. Przem chem
40 no.9:521-523 S '61.

1. Zaklad Fizykochemiczny, Instytut Chemii Ogolnej, Warszawa.

GRUEERSKI, Tadeusz

Studies on the dimethylnaphthalene fraction and the isolation of its main crystallization components. Przem chem 41 no.5:269-271. My '62.

1. Zaklad Fizykochemiczno, Instytut Chemii Ogolnej, Warszawa.

GRUBERSKI, Tadeusz; JANEK, Wladyslaw

Studies on liquid-solid phase equilibrium of certain components of wash oil. Przem chem 41 no.6:308-311 Je '62.

1. Zaklad Fizykochemiczny, Instytut Chemii Ogolnej, Warszawa.

GRUBERSKI, T.

On solid-liquid equilibria between coal-tar constituents. I. Binary systems of ~~ac~~anthrene with methyl derivatives of naphthalene. II. Binary systems: naphthalene-- acenaphthalene or 2.6-, 2.3- or 2.7- dimethylnaphthalenes. Bul chim PAN 9 no.11:731-740 '61.

1. Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw and Institute of General Chemistry, Warsaw. Presented by W. Swietoslowski.

S/081/63/000/002/007/068
H119/1186

AUTHOR: Gruberski, T.

TITLE: Solid-liquid equilibrium studies of some coal tar constituents. III. Eutectic systems formed by acenaphthene, naphthalene and methyl derivatives of naphthalene. IV. Calculation of the composition of binary and methyl derivatives of naphthalene. V. Evaluation of melting temperatures of eutectic binary and multicomponent mixtures of acenaphthene, with methyl derivatives of naphthalene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1963, 65, abstract 2B416 (Bull. Acad. polon. sci. Sér. sci. chim., v. 10, no. 1, 1962, 25-28, 29-32, 33-37 [Eng.; summary in Russ.]

TEXT: III. To check Sventoslavskiy's rule which states that the eutectic points for ideal binary eutectic mixtures of component A with a series of chemically related substances lie on the melting-point curve for A, the melting-point diagrams were experimentally studied for binary mixtures of acenaphthene (I), naphthalene (II), and its methyl derivatives (III). A
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Solid-liquid equilibrium ...

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comparison between the properties of the eutectic revealed that the rule applies to most of the cases. Systems with 2,3-dimethyl naphthalene are excepted. IV. The possibility was studied of calculating the composition of a eutectic on the basis of the composition of known eutectics from chemically related substances (RZhKhim, 1956, no. 18, 57490) by determining the eutectic parameters for mixtures of I, II, and III from the equation $m_2 = m_1(x_2/x_1)$ where x_1 and x_2 are the molar fraction of the components 1 and 2 of the eutectic. Component 1 was taken as standard for which $m_1 = 1$. Assuming that m is constant for the given related eutectic mixtures, the composition was calculated for the ternary and quaternary eutectics from I, II, and III. V. The value k was calculated for the eutectics of I, II, and III from the published equation $T = (T_1 x_1)^k$, where T and T_1 are the melting temperatures of the ideal eutectic mixture and of the pure component 1. Since k for each component depends only little on the composition, k may be assumed \approx const in first approximation, and the melting temperature of the eutectics can be calculated from its mean value. The results of calculation for binary systems are in satisfactory

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S/CS: /63/000/002/007/088
B119/B186

agreement with experimental data. The melting temperatures of three
3-component eutectics and one 4-component eutectic were calculated. For
communication II, see RZhKhim, 1963, 18504. [Abstractor's note: Complete
translation.]

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GRUBERSKI, T.

Binary solid-liquid equilibria of diphenyl with isomeric dimethyl-naphthalenes, naphthalene and acenaphthene. Biul chim PAN 10 no.10: 561-568 '62.

1. Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw. Presented by W. Swietoslowski.

P/014/63/042/002/001/003
D204/D307

AUTHOR: Gruberski, Tadeusz

TITLE: Studies of liquid-solid equilibria in systems of diphenyl with isomeric dimethylnaphthalenes, naphthalene and acenaphthene

PERIODICAL: Przemysł Chemiczny, v. 42, no. 2, 1963, 88-92

TEXT: The present work, which is a continuation of an earlier investigation (Przem. Chem., 41, 308 (1962); Bull. Acad. Polon. Sci., Ser. sci. chim., 9, 731, 737 (1961); 10, 25, 29, 33 (1962)), was aimed at a study of the binary systems diphenyl with 2,6-, 2,3-, and 2,7-dimethylnaphthalenes, naphthalene and acenaphthene to determine (a) the nature of the solubility curves and (b) any departures from ideality. Pure materials were used. Eutectics were found in all cases. Degree of ideality was assessed by testing the results for adherence to the assumptions and the scheme of Świętosławski (Roczniki Chem., 23, 1, 7 (1949); Metody rozdzielania i oczyszczania substancji (Methods for the separation and purification

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Studies of liquid-solid ...

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tion of substances), Warsaw 1950), finding that the latter conditions were obeyed by all the systems studied with the exception of diphenyl-2,3-dimethylnaphthalene. The latter system is therefore nonideal. For the remaining 4 systems relations derived for ideal eutectic systems were used to calculate the eutectic compositions and melting points of mixtures throughout the whole range of partial concentrations. There are 6 figures and 10 tables.

ASSOCIATION: Zakład Fizykochemiczny Instytutu Chemii Ogólnej w Warszawie (Physicochemical Department of the Institute of General Chemistry, Warsaw)

SUBMITTED: July 21, 1962

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EXCERPTA MEDICA Sec.4 Vol.11/5 Microbiology, etc. May 1958

^oGRUBESHOVA, M.

1328. TRANSMISSION OF THE PROPERTY OF PRODUCTION OF ANTIBODIES
BY THE NUCLEOPROTEIN FRACTION TO NON-IMMUNIZED RECIPIENTS
(Russian text) - Shtertzl Ya. and Grubeshova M. - ZH. MIKROBIOL.
1957, 4 (39-46) Graphs 9

No antibody production has been found in five-day-old rabbits inoculated with S. paratyphi B. However if five-day-old rabbits were treated simultaneously with nuclear or mitochondrial fractions of tissues from immunized animals, agglutinating antibodies were found. The ability to produce antibodies by young animals has also been achieved by desoxyribonucleoprotein isolated from tissues of immunized animals.

Gurevitch - Jerusalem

GRUBIC, Aleksandar

A new Sphaeractinia. Glas Prir muz A no.11:41-46 '59.

(Sphaeractinia)

S/169/62/000/012/069/095
D228/D307

AUTHOR: Grubich, Vilmos
TITLE: Man and the weather

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1962, 67,
abstract 12B427 (Az idojaras es az ember, Budapest,
Med. Konyvk., 1961, 202.1., illus. (Rev. by Fredmer-
szky, Tibor, Idojaras, 65, no. 6, 1961, 371-372
(Hun.)))

TEXT: Theoretical and practical questions of the hardening of the organism are reviewed from the biological point of view. The first of the five chapters is an introduction to the basic principles of biometeorology and describes the main atmospheric factors (air pressure and temperature, water vapor content, relative humidity, atmospheric electricity) and their role as irritants, inducing a definite reaction in the organism when acting together (climate, weather, atmospheric front). Chapter II states the biometeorological principles of the hardening of the organism and of the main

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GRUBICH, V. 1949

(A Budapesti Paz.Pet. Tudo. Korelettani Inst. es as Orszagos Balneologiai Kutato
Ontezet Kozlemenye)

"Effect of the Medicinal Mineral Water No. 1, of Hadjuszoboszlo on Metabolism."

Crvosi Hetilap, 1949 90/19(596-599)
Abst: Exc. Med. 11, Vol. 111, No. 4, p. 500

GRUBICH, W.; ZSELYONKA, L.

Blood sedimentation in pulmonary tuberculosis. Wien. med. Wochr.
100 no.29-30:505-509 12 Aug. 1950. (CML 20:1)

1. Of the Institute for General Pathology and Bacteriology of
the Peter Pazmany University in Budapest (Head--Laszlo Zselyonka,
M. D.) and of Erzsebet Sanatorium (Director--Oszkar Orszagh,
M. D.).

GRUBICH, V.; VARATH, G.

Sweat secretion, elimination and exercise. Orv. hetil. 94 no.22:604-
607 31 May 1953. (GLML 25:1)

1. Doctors. 2. Research Laboratory (Head Physician -- Dr. Vilmos
Grubich), National Institute of Physical Training and Sports Hygiene
(Director - Head Physician -- Dr. Sandor Balassa).

GRUFICH, V.

Forsch.-Lab., Inst. für Körperkult. und Sportgesundh. - Wesen, Budapest.
*Gefassfunktions-Untersuchungen an Sportlern. Examination of vascular function
in sportsmen ACTA PHYSIOL. ACAD. SCIENT. HUNG. (Budapest) 1954, 5/suppl. (63-64)

SO: EXCERPTA MEDICA - Section II, Vol. 7, No. 10

GRUBICH, Vilmos

Modern exercise apparatus with a moving band for rats.
Kiserletes orvostud. 6 no.6:569-570 Nov 54.

1. Orszagos Testnevelés-es Sportegészségügyi Intezet
Kutatólaboratorium.

(EXERCISE

appar. with moving band for rats)

(APPARATUS AND INSTRUMENTS

exercise appar. with moving band for rats)

GRUBICH, Vilma, dr.

Physical culture for patients with pulmonary tuberculosis. Tuberk.
kerdesei 7 no.6:81-84 Dec 54.

1. Az Orszagos Testnevelés- és Sportegészségügyi Intézet
Kutatólaboratoriumának közleménye.

(TUBERCULOSIS, PULMONARY, therapy
phys. culture methods (Hun))

GRUBICH, Vilmos, dr.; BARATH, Gyorgy, dr.; VARADY, Arisztid, dr.

Functional examination of blood supply of the skin. Orv. hetil.
95 no.33:898-903 Aug 54.

1. Az Országos Testnevelés- és Sportegészségügyi Intézet (igazgató-
főorvos: Kovari Aladar dr.) Kutatólaboratóriumának (főorvos:
Grubich Vilmos dr.) közleménye.
(SKIN, blood supply
funct. exam.)

GRUBICH, Vilmos, dr.

Spirotonometry. Orv.hetil. 100 no.46:1654-1657 X '59.

1. Az Országos Testnevelés- és Sportegészségügyi Intézet
(igazgató főorvos: Hajdu Ferenc dr., tudományos igazgató:
Nemessuri Mihály dr.) közleménye.
(SPIROMETRY)

74

GRUBIN, A. N.

Engineer, "A Mechanical Method of Profiling Side
Milling Cutters,"

Stanki I Instrument, 10, No. 1, 1939

Report U-1505, 4 Oct. 1951

GRUBIN, A. N., M. B. LIAHTSIER and M. S. POLCTSKII.

Zuboreznyi instrument.

Moskva, Mashgiz, 1946. 2 v. diags.

Bibliography: v.2, p.229-(230).

(Gear-cutting tool.)

DIC: WJ187.07

(w.v.l.)

SU: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

Grubin, A. N.

Mech
Phys

735. Grubin, A. N., and Libachev, Yu. I., Analysis of the stressed state arising in the stage of large plastic deformation in stretching cylindrical specimens with ring-shaped groove (in Russian), *Zh. tekhn. Fiz.* 25, 512-528, 1955.

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Analysis is given of the problem of the progressive quasistatic extension under axial force of a circular cylinder with a transverse groove cut along its surface. The problem is therefore one of rotational symmetry, and all quantities are functions of two space coordinates and a time coordinate, specifying the progress of the deformation. The method is based upon a finite-strain theory of plasticity. At the outset, a power series development in an axial coordinate is assumed for the components of displacement, the coefficients in these series being unknown functions of a radial coordinate. The method proceeds through various approximations. In particular, approximations occur in connection with the above series and with the satisfaction of the boundary conditions at the progressively deforming groove. No application is made to any specific problem.

Reviewer's note: This problem is of considerable technological importance. Unfortunately, an analysis based upon an incremental theory of plasticity would be prohibitively difficult at the present time. The circumstances in which results predicted by the present analysis will be sufficiently reliable for design use are to be determined only through direct comparison with experimental data.

Courtesy of *Mathematical Reviews* H. G. Hopkins, England

Handwritten initials

SOV/137-57-6-10882

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 212 (USSR)

AUTHOR: Grubin, A.N.

TITLE: In-plane Transverse Bending of Beams of Constant Cross Section Under Conditions of Steady Creep (Ploskiy poperechnyy izgib sterzhney postoyannogo secheniya v usloviyakh ustanovivsheysya polzuchesti)

PERIODICAL: Sb. nauch. tr. Kuybyshevsk. industr. in-t, 1956, Nr 6, book 2, pp 3-22

ABSTRACT: A method is set forth for the solution of problems of in-plane transverse bending of beams of constant cross section under conditions of steady creep. Equations are presented descriptive of the elastic and plastic states of the material and the conditions for the appearance of possible variations in the plane stressed state under conditions of absence of variations of external forces upon the real shifts in the body. The new method of variations suggested, which offers an effective solution of these problems, is based on finding an infinite multiplicity of functions for σ_x , σ_y , and τ_{xy} , dependent upon a single parameter and satisfying the differential equations for

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In-plane Transverse Bending of Beams (cont.)

equilibrium, the integral conditions for equilibrium, and also the contour conditions. The method of finding the functions, for σ_x , σ_y , and τ_{xy} , consisting of the fact that a function in the form $\sigma_x = M_x y^k / I_k$ is selected for σ_x , is fundamentally new. Here I_k is the generalized moment of inertia, k is an arbitrary parameter, and M_x is the bending moment in the given cross section. The method proposed is explained in terms of examples for the bending of a cantilever beam of constant cross section under conditions of concentrated and uniformly distributed loads.

L.G.

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Grubin, H.N.

PHASE I BOOK EXPLOITATION 981

Chelyabinskiy Politeknicheskly institut.

Raschet na prochnost' elementov konstruksiy (Analysis of Strength of Structural Elements) Moscow, Mashgiz, 1957. 130 p. (Series: Its Sbornik statey, vyp. 11) 5,000 copies printed.

Reviewers: Grubin, A.N., Doctor of Technical Sciences, Gonchar, V.N., Kempner, M.L., Kudryavtsev, A.F., Romalis, B.L., Skornyakov, V.B., Candidates of Technical Sciences, and Bybin, S.A., Engineer; Ed.: Gokhfel'd, D.A., Candidate of Technical Sciences; Tech. Ed.: Sarafannikova, G.A.; Executive Ed. (Ural-Siberian Branch, Mashgiz): Kravtsov, V.S.

PURPOSE: This book is intended for engineers, technicians and scientific workers.

COVERAGE: The articles in this collection were written by scientific workers of the Chelyabinsk Polytechnical Institute in connection with personnel of the Chelyabinsk Tractor Plant. The articles deal

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Analysis of Strength of Structural Elements 981

with the strength and plasticity of structural elements and machine parts. The author states that these articles are based on practical problems of great interest to Soviet industry. They are not, however, exhaustive scientific studies.

TABLE OF CONTENTS:

Preface

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Gokhfel'd, D.A., Candidate of Technical Sciences, Grimenko, N.I., Engineer, Chernyshev, V.M., Engineer. Investigation of Static Stresses in the Frame of a High-power Tractor

The authors consider the model of a frame as a statically indeterminate system. They think that this investigation may be useful for the determination of stresses in real frames in operating conditions. There are 6 Soviet references

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Analysis of Strength of Structural Elements 981

Karpachev, N.F., Engineer. Investigation of a Laminated Torsion Bar 20

Laminated torsion bars are widely used in the construction of heavy tractors and in other fields of industry. The author develops a theory for their analysis and gives some data of the experimental verification of his theory. There are 3 Soviet references.

Gokhfel'd, D.A., Candidate of Technical Sciences. Elastic-Plastic State of a Disc Due to Non-uniform Heat Distribution (Effect) 48

The author describes a particular case, of high temperature effect of the gas turbine rotor disc on the periphery of which a plastic region can be formed. The approximate method for determining stresses and deformations of the elasto-plastic rotor disc of a complex profile is presented. There are 6 Soviet references.

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Analysis of Strength of Structural Elements 981

Visyashchev, V.S., Engineer. Investigation of the Distribution of Forces and Stresses in a "Fir-tree" Type Attachment of an Aircraft Turbine Blade in the Elastic State of the Material

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In the described method of analysis of the "fir-tree" type turbine blade attachment, the author assumes that: 1) the blade is under tensile stresses due to centrifugal forces, 2) stresses in the attachment of the root of the blade and the corresponding portions of the disc are distributed along the height in sections, and in the limits of each section the cross-sectional dimensions and the temperatures are averaged, 3) The centrifugal forces distributed in the attachment are replaced by statically equivalent concentrated forces applied at the centroids of the analysed sections, 4) no other stresses need be taken under consideration. There are 3 Soviet references.

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Analysis of Strength of Structural Elements 981

Visyashchev, V.S., Engineer, Strength Analysis of a 'Fir-tree'
Attachment of Aircraft Turbine Blades in Creep Conditions 80

The author states that the strength of the fir-tree type attachment of a turbine blade is basically determined by creep conditions. His analysis is based on the general flow theory of plasticity and creep in the presence of experimental relationships between the intensity of the speed, shear deformation, and the intensity of shearing stresses. There are 4 Soviet references.

Popov, N.P., Engineer. Influence of the Surface Finish on the
Fatigue Strength of Springs 103

The author gives characteristics of springs whose surfaces were treated by shot peening, galvanic zinc plating, nitriding, and varnishing, and compares them with untreated springs. There are 2 Soviet references.

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Analysis of Strength of Structural Elements 981

Vydrin, V.N., Candidate of Technical Sciences. On the Theory of Energy in Plastic Deformation in Connection With the Plasticity Equation 111

The author states that the plasticity equation, expressed in terms of the principal stresses and based on the theory of constancy of the potential energy (theory of Mises, Huber, Hencky) is not adequate for solution of problems related to plastic deformations. He finds it expedient to solve the problem of relationship between principal stresses by use of the theory of plastic strain energy, which, according to the author, was formulated by the Soviet scientist, A.F.Golovin. Illustrative example (problem) is presented. There are 6 Soviet references.

Vydrin, V.N., Candidate of Technical Sciences. Connection between Displacements and Stresses in Plastic Deformations 127

The author examines the case of the mathematical theory of plasticity where the connection between stresses and strains in plastic deformations is given in the form of the equality of corresponding coefficients. There are 3 Soviet references

AVAILABLE: Library of Congress
Card 6/6

IS/whl
1-13-59

Grubin, A.N.

AUTHOR: Ivlev, D. D.
TITLE: Conference on Sustained Static Strength of Turbine Components Working at High Temperatures (Soyezhiznaniye po dilitel'noy staticheskoy prochnosti detalей turbomashin, rabotayushchikh pri vysokoy temperature)
PERIODICAL: Investiya Akademi Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1979, No 4, pp 149 - 150 (USSR)
ABSTRACT: The Commission on the Strength of Gas Turbines from the Institute of Mechanics of the USSR Academy of Sciences (Mekh USSR) Chairman - Yu.M. Rabotnov) and the Strength of Materials Institute of the USSR Academy of Sciences (MNI) Chairman - G.M. Kargin) Technical Committee on Turbine Construction (Chimtrudstroy) and the USSR Academy of Sciences (Akademiya Nauk SSSR) held a conference during November 20-22, 1977. The sustained static strength of turbine components working at high temperatures.

SOV/24-58-4-33/39
 Conference on Sustained Static Strength of Turbine Components Working at High Temperatures

G.A. Pulyayev (Zashchitvash) described the results of an investigation of creep in the boiler steel of gas turbines under stress conditions.
 M.N. Izrael (MNI) described the results of an investigation of deformation and sustained strength of tubes containing results on the study of creep under complex stress conditions.
 A.N. Grubin (Vyshevo-vyshevo ustabilizatsiya izmeneniya) presented a paper on the calculation of the "fir-tree" roots of blades of gas turbines in the creep deformation regime.
 L.M. Kichin (Leningradskiy gosudarstvennyy universitet - Leningrad State University and TsSU iz Polzovoy deyat'nosti) presented a paper on the calculation of the deformation of components made of gas turbine materials.
 Yu.M. Rabotnov (Mekh USSR) presented a paper on the results of theoretical and experimental investigations of unsteady creep under complex stress conditions. He remarked that there now exists a theory regarding the calculation of the stress and deformation state in turbine disks and rotors at high temperatures. In addition, he has designed a constructed apparatus for investigating unsteady creep and creep of heat resisting alloys under complex stress conditions and a number of valuable results have been obtained with this apparatus.
 G.M. Kargin (MNI) presented a paper on the results of an investigation of the creep of components working at high temperatures.
 S.V. Gorshakov (MNI) gave a paper "On Constructional Factors of Sustained Static Strength" which described results obtained on low-power turbine equipment.
 The paper of S.S. Kalinovsky dealt with the bearing capacity of turbine rotors.
 Many participants referred to the increasing need for extensive coordination of work in the field of strength of gas turbines.

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ANDOZHSKIY, Vsevolod Dmitriyevich, dotsent, kand.tekhn.nauk; BELYANIN, Aleksandr Ivanovich, inzh.; VEYTS, Vladimir L'vovich, inzh.; GINZBURG, Yevgeniy Grigor'yevich, inzh.; YEFIMOVICH, Aleksey Illarionovich, inzh.; KRIVENKO, Igor' Semenovich, inzh.; SHANNIKOV, Vladimir Mikhaylovich, doktor tekhn.nauk; FRENKEL', Izrail' Makhmanovich, kand.tekhn.nauk; GHUBIN, A.N., prof., doktor tekhn.nauk, retsenzent; KOLCHIN, N.I., prof., doktor tekhn.nauk, red.; GOLOVANOV, N.F., kand.tekhn.nauk, red.; SIMONOVSKIY, N.Z., red.izd-va; POL'SKAYA, R.G., tekhn.red.

[Gear and worm drives: some problems in theory, design, and manufacture] Zubchatye i cherviachnye peredachi; nekotorye voprosy teorii, rascheta i proizvodstva. Pod red. N.I.Kolchina. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 219 p.
(Gearing) (MIRA 12:6)

GRUBIN, A. N.

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

- 66. M. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 67. G. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 68. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 69. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 70. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 71. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 72. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
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- 91. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 92. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 93. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 94. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 95. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 96. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 97. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 98. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 99. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 100. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 101. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.
- 102. A. I. Gurevich (Moscow); On the stability of the flow of a liquid in a pipe with a free surface.

LITVIN, Faydor L'vovich; GRUBIN, A.N., prof., doktor tekhn.nauk,
retsenzent; SPERANSKIY, N.V., red.; KRYUCHKOVA, V.N., tekhn.red.

[Theory of gears] Teoriya subchatykh zatsepleni. Moskva,
Gos.izd-vo fiziko-matem.lit-ry, 1960. 444 p. (MIRA 14:3)

(Gearing)

LITVIN, F.L., prof., doktor tekhn. nauk. Prinsipialnoye uchastie BERNATSKIY, I.P.; GRUBIN, A.N., prof., doktor tekhn. nauk, retsenzent; VASIL'YEVA, V.P., red. izd-va; PETERSON, M.M., tekhn. red.

[New types of cylindrical worm gears] Novye vidy tsilindricheskikh cherviachnykh peredach. Moskva, Mashgiz, 1962. 102 p. (MIRA 16:1)

(Gearing, Worm)

S/114/62/000/003/002/005
E081/E435

26.71YV

AUTHOR: Grubin, A.N., Doctor of Technical Sciences, Professor
TITLE: Stress concentration in tension under conditions of
plane and axially symmetric creep deformation

PERIODICAL: Energomashinostroyeniye, no.3, 1962, 18-21

TEXT: An analysis has been made of the stress distribution as a function of time in the notched specimens shown in Fig.1 subjected to a tension P with particular reference to stress concentration in gas and steam turbine parts at high temperatures. A plane problem (Fig.1) and an axially symmetric problem (Fig.2) are considered. The plane problem is analysed in terms of a rectangular coordinate system x,y,z and the axially symmetric problem in terms of a cylindrical coordinate system z,r,θ. It is assumed that

$$\sigma_x > \sigma_z > \sigma_y$$
$$\epsilon_x > \epsilon_z > \epsilon_y$$

(plane problem)

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X

Stress concentration in tension ...

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$$\sigma_z > \sigma_\theta > \sigma_r$$

$$\epsilon_z > \epsilon_\theta > \epsilon_r$$

(axially symmetric
problem)

where σ represents normal stress and ϵ linear strain.
For simple extension, the creep law is taken as

$$\epsilon_x = \Omega_1(t) \sigma_x^m + \frac{\sigma_x}{E} \quad (4)$$

where E is the elasticity modulus, m - a constant depending on the material and temperature and $\Omega_1(t)$ - some function of time. Following H. Neuber (Ref.2: Kerbspannungslehre, Berlin, Springer-Verl., 1958), equations are established for the strains in the smallest section of the specimens. The equilibrium equations and the boundary conditions for the stresses are stated. An approximate solution for the maximum axial stress is obtained on the basis of these equations and a graph is given (Fig.3) showing the change in the maximum axial stress $(\sigma_x)_{\max}$, $(\sigma_z)_{\max}$ with time t , hours, for the following conditions (definitions as shown in Card 2/5

Stress concentration in tension ... S/114/62/000/003/002/005
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Fig.1): Plane problem: $P = 3600$ kg, $a = 4$ mm, $r_0 = 0.5$ mm, $b = 30$ mm, $E = 1.75 \times 10^4$ kg/mm², $m = 2$; for a service life of 5000 hours the maximum equivalent stress is approximately 42 kg/mm². Axially symmetric problem: $P = 753.6$ with the remaining values (except b) as for the plane problem; for a service life of about 10000 hours the maximum equivalent stress is approximately 34 kg/mm². There are 3 figures, 1 table and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc. The two references to English language publications read as follows:
Ref.3: Wahl A., Journ. Appl. Mech., v.23, 2, 1956;
Ref.7: Fried M.L. and Sachs G. Am. Soc. for testing materials, 1948. Special technical publication, no.87.

Card 3/5

X

11895
S/740/62/000/009/002/002
E191/E135

26.2/22

AUTHOR: Grubin, A.N.

TITLE: Stress analysis for static endurance strength of the
firtree root joint of gas turbine blades

SOURCE: Akademiya nauk SSSR. Institut mashinovedeniya.
Problemy prochnosti v mashinostroyenii. no.9, 1962.
97-129.

TEXT: The stress analysis is applied to the plane strain
problem of a firtree root. The load, originating in the
centrifugal pull of the blade, is assumed evenly distributed over
the line of contact of each tooth, an assumption claimed to be
substantiated experimentally. Since the precise stress
distribution in a firtree shape is complex, the stems and the
teeth must be considered separately both in the blade and the disc.
A system of resultant force components is defined which fits this
approach. The stress distribution in the tooth fillet region
remains unknown. At first, after running up the turbine, the
elements of the joint suffer elastic deformation or, sometimes,
elasto-plastic deformation. The former case is assumed in the

Card 1/5

Stress analysis for static ...

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present paper. It is further assumed that during non-steady-state creep the direct stress never exceeds the static yield stress. An elasto-plastic initial phase, the appearance of stresses exceeding the yield point, and stress concentration in the tooth fillets have all been considered in published literature. The basic stress and strain distribution of the teeth in the initial elastic phase are analysed, starting from the differential equation of elastic equilibrium for plane problems and dividing the tooth into its loaded and unloaded lengths. The stress components are found for each section after applying Castigliano's principle. An approximate method for computing the deflection is given. The stresses in elements of the blade root and disc projection stems are obtained, using simplified assumptions regarding the centrifugal force and the stresses transferred from the teeth. Each element extends over the radial length of one tooth. The stresses are obtained at first in the initial elastic phase of deformation. The deformations are computed from the stresses. Up to this point the stressed state has been analysed for arbitrary tooth loads. The unknown tooth loads are now

Card 2/5

Stress analysis for static ...

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computed from one equation of static equilibrium and as many equations of compatibility of deformations as are required for the number of unknown tooth loads. These equations are reduced to a system of linear algebraic equations in the initial elastic phase. If the solution for one or more of the tooth loads becomes negative, a clearance appears between the corresponding teeth. These negative loads are then assumed to vanish and the equation in the linear system corresponding to the serial number of the negative load is eliminated. A new solution is thus obtained. A zero load is still possible among the loads of the final solution. Practical analysis has shown that, with a precise tooth pitch and some difference in the thermal expansion coefficient, the load becomes unevenly distributed among the teeth, the upper teeth being the most highly loaded. The loads are then computed for the state of steady creep defined as the condition of equal rate of deformation at all points. The load and stress distribution remain constant with time. It is assumed that all clearances have been eliminated already in the elastic phase of deformation. A power law is assumed between the equivalent pure shear stress and the rate of equivalent pure shear strain.

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Stress analysis for static ...

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The factor of proportionality is related to the factor in a similar law for normal stress and the rate of normal strain as derived from tensile tests. The exponents are the same. The rates of strain of the teeth are found by an approximate method using the Castigliano theorem. This is followed by strain analysis in the blade root and disc projection stems. Once again, the tooth loads are found as solutions of a system of linear algebraic equations. If a temperature gradient exists over the length of the firtree joint, the constant of proportionality in the above power law decreases and the exponent increases. The upper teeth become less loaded, whilst the static endurance strength increases for the lower teeth so that the overall safety factor improves. The load distribution between the teeth under steady creep conditions is independent of the distribution when the turbine starts working. Sometimes the period of unsteady creep is long enough to justify a separate analysis. The absence of clearance in the joint is assumed. For simple tension, the rate of strain is the sum of a creep component (which follows the power law but with a factor variable with time and independent of

Card 4/5

X

Stress analysis for static ...

S/740/62/000/009/002/002
E191/E135

the stress) and an elastic component (proportional to the rate of change of stress). Due to this breakdown, the stress and strain distribution throughout the joint can be found by making use of the elastic and steady creep methods of analysis. There are 9 figures.

Card 5/5

X

ACCESSION NR: AR4041545

S/0137/64/000/004/1039/1039

SOURCE: Ref. zh. Metallurgiya, Abs. 41235

AUTHOR: Grubin, A. N.

TITLE: Influences of concentration of stresses on longevity of brittle heat-resistant alloys

CITED SOURCE: Sb. Polzuchest' dlitel'n. prochnost'. Novosibirsk, Sib. otd. AN SSSR, 1963, 75-87.

TOPIC TAGS: stress concentration, brittle alloy, heat resistant alloy, creep strain

TRANSLATION: An attempt is made to approximately solve the problem of the state of strain of stretched notched test pieces in the initial elasto-plastic stage of strain and in the subsequent stage of creep strain, and estimate longevity of such test pieces. In accordance with Neuber's scheme there is determined

Card 1/2

ACCESSION NR: AR4041545

separately the coefficient of concentration of stresses in test pieces with deep and shallow notches which then gives the possibility of calculating by Neuber's interpolation formula the coefficient of concentration of stresses in a real piece. The problem is solved for hyperbolic profile of the deep notch and elliptic profile of the shallow one. The rectilinear profile with curvature at the base of the notch applied in practice is easily recalculated on the two shown shapes of profiles. The solution is valid only for small strains ($\leq 2-3\%$), which for brittle heat-resistant alloys embraces strain up to fracture. Theoretical calculations satisfactorily coincide with experimental results. Bibliography: 8 references.

SUB CODE: MM, AS

ENCL: 00

Card 2/2

L 22466-65 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(b) BSD/AFNL/ASD(f)-3/
ASD(m)-3/AFETR JD/EM

ACCESSION NR: AR4045244

S/0124/64/000/007/V087/V088

SOURCE: Ref. zh. Mekhanika, Abs. 7V661

AUTHOR: Grubin, A. N.

TITLE: The effect of stress concentration on the longevity of brittle heat
resistant alloys

CITED SOURCE: Sb. Polzuchest' i dlitel'n. prochnost. Novosibirsk, Sib. otd.
AN SSSR, 1963, 75-87

TOPIC TAGS: stress concentration, alloy longevity, brittle alloy, heat resistant
alloy, notch stress, creep

TRANSLATION: The author studied the stress state in a notch cut into stretchable
samples with a deep hyperbolically contoured and shallow elliptically contoured
groove during both the initial elastic-plastic stage of deformation and the sub-
sequent creep stage. Analytical relationships between stresses and strains are

Card 1/2

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ACCESSION NR: AR4045244

given. A corrected function is introduced in the consideration of the creep stage, in the event of initial elastic-plastic deformation, in order to make allowance for the unloading effect of the purely plastic part of the deformation. A quantitative determination of notched sample lifetime is made. Knowing the dependence of the maximum normal stress $\sigma_{max} = \sigma_0 k_p$ on time for a real sample, one can calculate the "equivalent" stresses for different "t" by the following formula

$$\sigma_{equiv} = \left[\int_0^t (\sigma_{max})^m dt \right]^{-1/m}$$

and construct graphs for $lg \sigma_{equiv} - lgt$ for a series of values of the calculated stress σ_0 . The points at which these curves intersect with the stress-rupture strength curve of smooth samples give the time-to-failure of the notched samples.
I. I. Ishchenko

SUB CODE: MM

ENCL: 00

Card. 2/2

GRUBIN, A.N. (Leningrad):

"The character of fracture of ductile metals under stress-concentration conditions."

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

MARSHAK, M., prof.; GRUBINA, A., starshiy nauchnyy sotrudnik

Healthy food. Mast.ugl. 9 no.2:30 F '60.

(MIRA 13:7)

1. Institut pitaniya AMN SSSR (for ~~Grubina~~).
(NUTRITION)

GRUBINA, A.Yu.; MARSHAK, M.S.

Principles of the pattern and methods of organization of therapeutic and prophylactic nutrition for workers in various branches of industry. Vop. pit. 18 no. 6:3-9 N-D '59. (MIRA 14:2)

1. Iz Instituta pitaniya AMN SSSR, Moskva.
(INDUSTRIAL MEDICINE) (NUTRITION)

RAZUMOV, M.I.; SKIRKO, B.K.; GRUBINA, A.Yu.; YEZHOVA, Ye.N.

Significance of the crystalline and amorphous variety of silicon
dioxide in the etiology and pathogenesis of silicosis. Arkh.pat.
22 no.2:38-46 '60. (MIRA 13:12)
(LUNGS—DUST DISEASES) (SILICA)

GRUBINA, A.Yu.; KHAYKO, Ye.A.; MASLENIKOVA, Ye.M.; RAZUMOV, M.I.; SERGEYENVA,
M.A.; SKIRKO, B.K.; SHISHOVA, OLA.

Effect of food enriched by methionine on the development of
experimental silicosis in white rats. Vop.pit. 20 no.3:41-46 My-
Je '61. (MIRA 14:6)

1. Iz Instituta pitaniya AMN SSSR, Moskva.
(LUNGS--DUST DISEASES) (METHIONINE) (DIET)

GRUBINA, A.Yu.; YEZHNOVA, Ye.N. [deceased]; KRAYKO, Ye.A.;
MASLENIKOVA, Ye.M.; RAZUMOV, M.I.; SERGEYEVA, M.A.;
SKIRKO, B.K.

Influence of riboflavin on the course of experimental silicosis
in white rats. Vop. pit. 20 no.6:40-45 N-D '61. (MIRA 15:6)

1. Iz Instituta pitaniya AMN SSSR, Moskva.
(LUNGS--DUST DISEASES)
(RIBOFLAVIN--PHYSIOLOGICAL EFFECT)

RAZUMOV, M. I.; SKIRKO, B. K.; GRUBINA, A. Yu. (Moskva)

Influence of massive doses of vitamin B₂ on the development and
course of experimental silicosis in white rats. Arkh. pat. no.8:
55-62 '61. (MIRA 15:4)

1. Iz Instituta pitaniya AMN SSSR (dir. - chlen-korrespondent
AMN SSSR prof. O. P. Molchanova)

(RIBOFLAVIN) (LUNGS—DUST DISEASES)

RAZUMOV, M.I.; SKIRKO, B.K.; GRUBINA, A.Yu. (Moskva)

Comparative data on the silicogenic influence of different preparations of quartz (Experimental study). Arkh.pat. no.3: 13-20 '62. (MIRA 15:3)

1. Iz laboratorii patologicheskoy morfologii (rukovoditel' - doktor med.nauk M.I. Razumov) i laboratorii obmena veshchestv i energii (rukovoditel' - prof. O.P. Molchanova) Instituta pitaniya AMN SSSR. (QUARTZ--TOXICOLOGY) (LUNGS--DUST DISEASES)

GIMBINA, A. Z. et al. (1971) *Trav. Inst. Mat. Univ. Mosc.* 14: 1-11
1971, 14: 1-11, 1971, 14: 1-11.

Effect of riboflavin- and methionine-enriched diet on the
course of experimental allergic. *Nov. pit. 14: 1-11*
1971, 14: 1-11.

1. In addition to the diet with 10% protein.

GRUBINA, S.A.; SHAPIRO, G.L.

Gastric surgery in peptic ulcer. Trudy ISGMI 20:140-151 '54.
(MLRA 1038)
1. Gospiatal'naya khirurgicheskaya klinika Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta, zav. klinikoy - asst. deyatel' nauki, prof. A.V.Smirnov i fakul'tetskaya khirurgicheskaya klinika Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta zav. klinikoy - prof. P.N.Napalkov
(PEPTIC ULCER, surgery, results)

GRUBINA, S.A.

Industrial accidents among miners of the Melidovo Mine Construction
Trust. Trudy LSGMI 39:122-129 '58. (MIRA 12:8)

1. Kafedra hospital'noy khirurgii Leningradskogo sanitarno-
gigiyenicheskogo meditsinskogo instituta (zav.kafedroy - z.d.k.,
prof.A.V.Smirnov).

(ACCIDENTS, INDUSTRIAL, statist,
in miners in Russia (Rus))

SMIRNOV, A.V., prof.; EL'BERG, G.A., doktor med.nauk; BALAKHINA, T.A.;
MISHKINA, V.I.; GRUBINA, S.A.

Aleksandr Ivanovich Ermolenko; obituary. Vest.khir. 82
no.4:159 Ap '59. (MIRA 12:6)
(ERMOLENKO, ALEKSANDR IVANOVICH, 1891-1958)

СИБИНА, В.А., канд. мед. наук (Ленинград, Верейская ул., 40, кв.2)

Abolition of the pulmonary artery. *Vestn. Khir.* 92 no.4:
149-152 Apr 64 (ISSN 18:1)

1. Из 1-й клиники высшей хирургии (ав. - проф. А.В. Салимов) Ленинградского государственного медицинского института.

GRUBISIC, D.

A survey of crawling by draggingp, 420.

(Gozdarski vestnik, Vol. 8, No. 12, Dec. 1956, Ljubljana , Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc.Vol. 6, No. 8, Aug 1957. Uncl.

GRUBISIC, F.

"Curbs in trawling." p. 153. (Morsko Ribarstvo. Vol. 3, no. 9/10, Sept./Oct. 1951. Zagreb.)

SO: Monthly List of East European Accessions, Vol. 3, no. 6, Library of Congress, June 1954.
Uncl.

MANDEL, F.

"Lobster Fishing and Its Regulations", p. 111, (Fish. Res. Bull. No. 10, Vol. 1, No. 9/10, 1954, Zagreb, Yugoslavia)

CC: Embassy List of East European Accidents (EAL), 14, No. 1, 1955, March 1955, Uncl.

GRUBIŠIĆ, F.

A few words about fishing boats. p. 110. MORSKO RIBARSTVO.
Udruženje Morskog ribarstva jugoslavije Rijeka.

Vol. 7, No. 5, May 1955

SOURCE: East European Accessions List, (EEAL), Library of
Congress, Vol.4, No. 12, December 1955

GRUBISIC, F.

Hunting whales. p. 147. MORSKO RIBARSTVO. (Udruzenje morskog
ribarstva Jugoslavije) Rijeka.

Vol. 7, No. 6, June 1955

SOURCE: East European Accessions List, (EEAL), Library of
Congress, Vol. 4, No. 12, December 1955

GRUBIŠIĆ, F.

Fishing practice and the sea in echo sounding. p. 199. MORSKO RIBARSTVO.
(Udruzenje morskog ribarstva Jugoslavije) Rijeka. Vol. 7, No. 8, Aug. 1955.

SOURCE: East European Accessions List, (EEAL) Library of Congress,
Vol. 5, No. 8, Aug. 1956.

GRUBISIC, F.

GRUBISIC, F. Seine fishing in Denmark. p. 203.
New purchase prices for salt-water fish..

Vol. 7, No. 10, Oct. 1956.

MOSEK RIBARSTVO

AGRICULTURE

Rijeka, Yugoslavia

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

GRUBISIC, F.

Contribution to the discussion about fishing boats. p. 87.
MORSKO RIBARSTVO. (Udruzenje morskog ribarstva Jugoslavije)
Vol. 8, no. 3, March 1956.

SOURCE:

East European Accessions List, (EEAL),
Library of Congress Vol. 5, no.11, Nov.,1956.

GRUBISIC, F.

Trawlers with a three-member crew. p. 123

Found in vol. 8, no. 4, April 1956
In Rijeka, Yugoslavia (MORSKO RIBARSTVO

So. EAST EUROPEAN ACCESSIONS LIST Vol. 5, No. 7 July 1956

GRUBISIC, F.

GRUBISIC, F. The effect of Euforbia vulfenii on marine organisms. p. 221.

Vol. 8, No. 7, July 1956.

MORSKO RIBARSTVO

AGRICHTUR

Rijeka, Yugoslavia

So: East European Accession, Vol. 6, No. 2, February 1957

GRUBISIC, F.; ZUPANOVIC, S.

Trawling without dragging. p. 19.
(Gozdarski vestnik, Vol. 9, No. 1, Jan. 1957, Ljubljana, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

GRUBISIC, F.

Review of Ante Tadic's book O slatkovodnim i morskim ribama (Fresh-Water and Salt-Water Fishes.) p. 34.
(Gozdarski vestnik, Vol. 9, No. 1, Jan. 1957, Ljubljana, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957, Uncl.

1950, 7.

Notes on our findings.

2. 17 (Dobro jutro) (Zigona, Yugoslavia) Vol. 1, no. 1, Jan. 1950

ID: Monthly Index of East European Documents (MIID) Vol. 7, No. 1, 1950

GRUBISIC, F.

New possibilities for the sponge industry. p. 5.

Periodical: MORSKO RIBARSTVO.

Vol. 11, no. 1, Jan. 1959.

AGRICULTURE

SO: Monthly List of East European Accessions (EEAI) LC

Vol. 8, No. 4
April 1959, Uncl.

GRUBISIC, F.

Results of the test winter fishing of mackerel at Pelagruz Islands.
p. 53

MORSKO RIBARSTVO. (Udruzenje morskog ribarstva Jugoslavije) Rijeka,
Yugoslavia. Vol. 11, no. 3, Mar. 1959

Monthly List of East European Accession (EEA) LC, Vol. 8, no. 6
June 1959
Uncl.

CRUBISIC, F.

The extent of sardine shoals and the length of the bluefish. p. 61

MORSKO RIBARSTVO. (Udruzenje morskog ribarstva Jugoslavije) Rijeka,
Yugoslavia. Vol. 11, no. 3, Mar. 1959

Monthly List of East European Accession (EEAI) LC, Vol. 9, no. 6
June 1959
Encl.

GRUBISIC, F.

Trawling with two ships. P 95

MORSKO RIBARSTVO. (Udruzenje morskog ribarstva Jugoslavije) Rijeka, Yugoslavia
Vol. 11, no. 5, May 1959

Monthly List of East European Accessions (EEAI) LC. vol. 8, no. 9, Sept. 1959

Uncl.

CRIBISIC, F.

Most recent methods in lifting nets from the sea. p. 144

MORSKO RIBARSTVO. (Udruzenje morskog ribarstva Jugoslavije) Rijeka,
Yugoslavia. Vol. 11, no. 7, July 1959

Monthly list of East European Accessions (EEA1) LC Vol. 9, no. 2
Feb. 1960

Uncl.

GRUBISIC, F.

Degree of development of our fishing methods and means. p. 161

MORSKO RIBARSTVO. (Udrusenje morskog ribarstva Jugoslavije) Rijeka,
Yugoslavia. Vol. 11, no. 8, Aug. 1959

Monthly list of East European Accessions (EEAI) LC Vol. 9, no. 2
Feb. 19~~60~~

Uncl.

GRUBISIC, Fabjan

The spawning period of some Adriatic fishes in the central part of Dalmatia. Bilj ocean no. 18:1-3 '62.

1. Institut za oceanografiju i ribarstvo, Split.

PIPIRAS, Yozas, dots., kand. veter. nauk; AIZINBUDAS, Leizeris;
RUSINAS, Simas; GRUBLIAUSKAS, Liudvikas; KILAS, M., red.

[Principles of veterinary medicine] Veterinarijos pagrindai.
Vilnius, Mintis, 1965. 287 p. [In Lithuanian]
(MIRA 18:7)

86353

S/046/60/006/004/002/022

B019/B056

6,8000(3201,1099,1162)

AUTHOR: Grubnik, N. A.

TITLE: An Investigation of the Acoustic Properties of Underwater Bottoms at High Audio-frequencies

PERIODICAL: Akusticheskiy zhurnal, 1960, Vol. 6, No. 4, pp. 446 - 453

TEXT: A method of measuring the sound reflection coefficient of underwater bottoms is described as a function of the frequency and the angle of incidence. The measurements were carried out with standing waves, for which purpose experimental conditions were chosen, at which the multiply reflected waves could be neglected. This was obtained by means of a shielded radiator. For these measurements, a contraption was used, which permitted the exact determination of the pressure distribution along the perpendicular to the bottom as well as at various angles of incidence. Preparative experiments were carried out at the Moskovskoye Sea by the Volzhskaya nauchnaya stantsiya (Volzhsk Scientific Station). For sandy bottoms, a reflection coefficient of 0.76 and a phase position of the reflection coefficient of 0.96π were measured. In the case of slimy sandy bottom, a

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An Investigation of the Acoustic Properties
of Underwater Bottoms at High Audio-fre-
quencies

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reflection coefficient of 0.68 and a phase position of 0.76π , and in the case of slimy bottoms a reflection coefficient of 0.36 and a phase position of 0.61π were determined. From the results obtained the author draws the conclusion that the reflection takes place somewhat below the water-bottom boundary. Further measurements were carried out in the Caspian Sea. At the place of measurement, the bottom consisted of 5 m clay, and the frequency characteristic as well as the angular dependence of the reflection coefficient were determined. The reflection coefficient is on the average 0.35 . The phase position of the normal reflection coefficient is between $+0.005\pi$ and -0.075π , the mean being about -0.04π . As sonic velocity in the bottom, $1755 \text{ m}\cdot\text{sec}^{-1}$ was calculated, and further, the normal impedance of the bottom is $3.17 \cdot 10^5 \text{ g}\cdot\text{cm}^{-2}\cdot\text{sec}^{-1}$. As mean density of the bottom 1.82 g cm^{-3} is given. Calculations showed that the complex reflection coefficient is due to the complex refractive index. The imaginary fraction of the complex refractive index is 8% of the real one. The author thanks V. S. Grigor'ev for his instructions. V. S. Nesterov

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An Investigation of the Acoustic Properties
of Underwater Bottoms at High Audio-frequencies

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and the Upravleniye geologicheskikh izyskaniy Ministerstva neftyanoy promyshlennosti AzSSR (Administration of Geological Exploration of the Ministry of the Petroleum Industry of the Azerbaydzhanskaya SSR) are mentioned. There are 11 figures and 7 references: 4 Soviet and 3 US.

ASSOCIATION: Akusticheskiy institut AN SSSR, Moskva (Institute of Acoustics of the AS USSR, Moscow)

SUBMITTED: March 11, 1959

Card 3/3

Grubitz, L.

RUMANIA / Chemical Technology. Chemical Products and H
Their Application. Dyeing and Chemical Treat-
ment of Textile Materials.

Obs Jour: Ref Zhur-Khimiya, No 9, 1959, 33655.

Author : Grubitz, L., Pasculescu, H.

Inst : Not given.

Title : Technical and Economical Observations in the
Application of Different Fixing Agents.

Orig Pub: Ind. textila, 1958, 9, No 3, 107-108.

Abstract: Instructions are provided for the choice of the
most economical fixing agents in certain Rumanian
and imported direct dyes. Acetic solutions of
potassium dichromate, DCM, levogen VV and syn-
tefix were used as fixing agents. -- G. Markus.

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298

GRUBITZ, L.; PASCULESCU, H.

From the experience of the finishing section at the June 11th Textile Enterprise
in Pitesti, in processing textile from fabrics from cellulose fibers. p.421

INDUSTRIA TEXTILA. (Asociatia Stintifica a Inginerilor si Tehnicienilor din
Romania si Ministerul Industriei Usoare)
Bucuresti, Rumania
Vol. 10, no.10, Oct. 1959

Monthly List of East European Accessions (EEAT) IC., Vol. 9, no.1, Jan. 1960
Uncl.

GRUBLYAUSKAS, L. K.

"The Importance of Discovering Swine Infected With a Chronic Form of Erysipelas With the Aid of an Agglutination Reaction in Order to Control This Epizootic Under the Conditions Which Exist in the Lithuanian SSR." Cand Vet Sci, Lithuanian Agricultural Acad, Kaunas, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

USSR/Diseases of Farm Animals .. Diseases Caused by Bacteria
and Fungi

R

Abs Jour : Ref Zhur Biol., No 5, 1959, 21392

Author : Grublyauskas, L.

Inst : Lithuanian Veterinary Academy

Title : The Significance of Detecting Chronic Erysipelas in
Swine with the Assistance of the Agglutination Reaction
in Order to Control Epizooty under the Conditions of
Lithuanian SSR

Orig Pub : Tr. Lit. vet. akad., 1957, 3, 161-170

Abstract : It was shown that the antigen for the agglutination reac-
tion (AR) should be prepared from a strain which is capa-
ble of agglutination. In comparing the results of intra-
vitally performed AR with pathologic-anatomical and bacte-
riological data, it was found that AR is sufficiently

Card 1/2

GRUBMAN, I.

Repair of hydraulic couplings. Avt. transp. 36 no.5:32 My '58.
(Automobiles--Maintenance and repair) (MIRA 11:6)

GRUBNER, Imre

Kinematic and dynamic tests on feeding air cylinder with hydraulic brakes in pilger mills. Koh lap 97 no.10:464-469 0 '64.

GRUBNER, L.

GRUBNER, L. Countercurrent electrophoresis on paper. 11. Apparatus.
p. 148 Vol. 50 no. 1, Jan. 1956 CHEMICKÉ LISTY,
PRAHA. CZECHOSLOVAKIA

SOURCE: EAST EUROPEAN ACCESSIONS LIST (EEAL) VOL 6 NO 4 April 1957

GRUBNER, Maria; CHMIELEWSKA-ZIELINSKA, Bogumila; GRUSZCZYNSKI, Tadeusz

Unpasteurized frozen egg substance. Roczn panstw zakl hig
14 no.2:193-198 '63

1. Division of Hygiene of Feeding and Food, Voivodeship
Sanitary and Epidemiological Station, Kielce.

GRUBNER, O.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Electrochemistry

Continuous counter-current electrochromatography on filter paper. Preliminary communication. J. Grubner, G. Grahm, and Z. Baumg. (Charles Univ., Prague, Czechoslovakia), *J. Polym. Sci. A-1*, 1954, 12, 1003-1004. This method is based on the movement of charged particles in an elec. field against a stream of electrolyte soln. which flows along an inclined paper sheet. The app. described is suitable for prep. and sep. purposes. 12, 1003

GRUBNER, Otto

Chemical Abst.
Vol. 48
Apr. 10, 1954
Electrochemistry

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Polarographic investigation of the system cystine-cysteine.
I. Polarography of cystine. Otto Grubner (Charles Univ., Prague, Czech). *Chem. Listy* 47:1133-42(1953).

An anodic wave of cysteine was described. It was observed in neutral and acidic media at potentials more positive than those of the anodic wave hitherto investigated. The concentration, pH, and temperature dependences of both waves were compared. Hg macroelectrodes showed that the anodic depolarization process did not correspond to the oxidation of cysteine to cystine but rather with cysteine to form compounds of Hg, the ions of which reacted with cysteine to form compounds whose solubility depended on pH. Thus, solid films on the electrode surface were formed, and this gave rise to the more positive wave. An analogous behavior was found with H₂S. By means of a special commutator it was ascertained that the depolarization process connected with the formation of compounds between cysteine and Hg was reversible. II. Polarography of cystine. Mirko Kalousek, Otto Grubner, and Antonin Lockstein. *Ibid.* 1143-51.—Experiments analogous to those above lead to a qualitative explanation of the polarographic reduction of cystine. The more positive reduction wave of cystine was due to the electro-reduction of a product which was formed on the dropping electrode in the direct oxidation of Hg by adsorbed cystine. The second wave was due to the irreversible reduction of cystine to cysteine. On Hg electrodes, cystine and cysteine did not form a reversible oxidation-reduction system, and therefore published values of the oxidation-reduction potentials had no thermodynamic significance. E. Erdős

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Polak, O.

"Polarographic Investigation of the Cystine-Cysteine System. I. Polarography of Cysteine." p. 144, (SYMPOSIUM ON CZECHOSLOVAK CHEMICAL COMMUNICATIONS. SBORNÍK CZECHOSLOVAKÝCH KEMICKÝCH ZPRÁV, Vol. 19, No. 3, June 1954, Praha, Czechoslovakia)

SU: Monthly List of East European Accessions, (LAL), 10, Vol. 4 No. 5, May 1955, Uncl.

GRUBNER, O.

C Z E C H

✓1668. Polarographic investigation of the cysteine - cystine system. II. The polarography of cystine. M. Kalousek, O. Grubner and A. Tockstein (Coll. Czech. Chem. Commun., 1956, 19, 1111-1122).—In view of the anomalous behaviour of cysteine and cystine in various potentiometric and colorimetric procedures, as well as the discrepancies in the values quoted for the oxidation potential of the cysteine-cystine system, this system was investigated polarographically. The system is an irreversible one, so that its apparent oxidation potential has no real significance. [This is a translation into Russian of a paper that was published originally in Chem. Listy, 1956, 67, 1149.] M. Karat.

GRUBNER, O.

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✓ Countercurrent electrophoresis on paper. I. Methods.
Otto Grubner and Jih Dvofak (Karlova Univ., Prague)
~~Chem. Abstr.~~, 1787-72 (1955).—A new method for prepar-
ation of paper is described; it is based on the movement of
charged particles in an elec. field against a stream of elec-
trolyte soln. that flows along an inclined paper sheet. Re-
producible rates of flow can be attained by hydrophobization
of the supporting glass. The electrode compartments are
sepd. by a labyrinth system with agar-agar junctions.
The sepn. capacity of the app. depends on the concn. of the
mixt. The sepn. capacity of 8 mg. of the most mobile com-
ponent per day was attained. E. Erdős

① *[Handwritten initials]*