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AM4016094 BOOK EXPLOITATION S/0795

Solodkin, Yefim Yefremovich; Ginevskiy, Aron Semenovich

Turbulent flow of a viscous fluid in the initial sections of axially symmetric and plane channels (Turbulentnoye techeniye vyazkoy zhidkosti v nachal'ny*kh uchastkakh osesimmetrichny*kh i ploskikh kanalov) Moscow, Oborongiz, 1957. 55 p. illus. No. of copies not given. Editor: Zakharov, Yu. G. (Candidate of Technical Sciences); Deputy editor: Laty*nin, Ye. V. (Engineer); Publishing house editor: Sheynfayn, L. I.; Technical editor: Pukhlikova, N. A.

Series note: Moscow. Tsentral'ny*y aero-gidrodinamicheskiy institut. Trudy*, no. 701

TOPIC TAGS: turbulent flow, viscous fluid, initial section, axially symmetric channel, flat channel, velocity distribution, circular pipe, turbulent boundary layer, drag

PURPOSE AND COVERAGE: The flow of a viscous fluid in the initial section of channels of various cross section is analyzed in this brochure. It is shown that

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consideration of the cross-sectional curvature of the surface in the case of an axially symmetric channel will give better agreement between experimental and calculated characteristics than the usual theories utilizing exponential or logarithmic laws of velocity distribution in the boundary layer. In the case of the flat channel, the logarithmic law will provide good agreement between calculated and experimental data. The characteristics of a circular pipe and a flat channel can be analyzed as limit cases of a channel of annular cross section.

TABLE OF CONTENTS:

I. Turbulent boundary layer and drag of the initial section of an axially symmetric expanding channel with a zero pressure gradient -- 3
II. Turbulent boundary layer and drag of the initial section of a circular pipe -- 26
III. Turbulent boundary layer and drag of the initial section of a flat channel -- 41

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKIN, Ye.Ye., kand.tekhn.nauk; GINEVSKIY, A.S.

Determining characteristics of the turbulent boundary layer and the resistance of long axisymmetric bodies. Trudy NTO sud.prom. 7 no.2:81-106 '57. (MIRA 12:1)
(Stability of ships)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

GINEVSKIY, A.S.; SOLODKIN, Ye.Ye. (Moskva)

Effect of lateral surface curvature on the characteristics of the axisymmetric turbulent boundary layer. Prikl.mat. i mekh. 22 no.6:819-825 N-D '58. (MIRA 11:12)
(Boundary layer)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOL'O DKIN, YE. YE.

24(1) PHASE I BOOK EXPLOITATION SOV/3685

Tsentral'nyy aero-gidrodinamicheskiy institut

Ventilyatory i vozdukhoprovody (Ventilators and Air Ducts) Moscow, Oborongiz, 1959. 249 p. (Series: Promyshlennaya aerodinamika, sbornik No. 12) Number of copies printed not given.

Ed. (title page): K.A. Ushakov, Professor; Ed. (inside book): A.S. Ginevskiy, Candidate of Technical Sciences; Ed. of Publishing House: Z.A. Shekhtman; Tech. Ed.: I.M. Zudakin; Managing Ed.: A.S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for engineers, technicians and scientific workers specializing in the field of industrial aerodynamics and ventilation.

COVERAGE: This collection of 14 articles deals with problems of ventilation technology. Results of experimental and theoretical investigations of the aerodynamic characteristics of axial and centrifugal fans are described. Some designs of new, highly economical centrifugal fans are presented and the drag coefficients of various ducts and elements of ventilation systems are given. No personalities are mentioned. References follow most articles.

6. Kovalenko, V.N. and K.V. Chebyshev. Regulation of Centrifugal Fans With Inlet Guide Vanes 70
The article presents experimental materials on regulating centrifugal fans by means of axial and simplified guide apparatus. On the basis of these materials and data of flow investigations behind upstream guide vanes and centrifugal impellers, a method for calculating the characteristics of fans with axial guide vanes is elaborated.

7. Chebyshev, K.V. Centrifugal Fan Volume Regulation by Changing the Passage Section of the Wheel or of the Body 110
The author describes investigations of fan model Tsh-70 with flat inclined blades developed by TsAGI. This fan has good aerodynamic characteristics and is now mass-produced as a general purpose fan. Comparative results of tests are given.

8. Bychkov, A.G., I.L. Lokshin, and F.O. Mamanyants. New Types of TsAGI Centrifugal Fans 125
This article describes ten types of new centrifugal fans. These fans were designed by TsAGI in 1956-1957 and have a high efficiency coefficient η=0.76-0.85. It is suggested that some of them might replace ten efficient fans now in production. The article states that 180,000 fans are currently produced in the USSR per year and operation of these fans requires 800,000 kw.

9. Ginevskiy A.S. and Ye.Ye. Solodkin. Aerodynamic Characteristics of the Initial Sector of ~~a Circular~~ Annular Duct During Turbulent Flow in the Boundary Layer 155
The authors describe an approximate method for calculating the turbulent boundary layer in the initial sector of an annular duct taking account of the influence of the transversal curvatures of the internal and external convex and concave surfaces of given radiuses on the shape of the velocity profile and on other characteristics of the turbulent boundary layer.

10. Solodkin Ye.Ye. and A.S. Ginevskiy. The Influence of Initial Unsteady Flow on the Characteristics of Diffuser Ducts 168
Results of a theoretical investigation of the influence of initial unsteadiness of flow in the inlet section of a plane diffuser with straight walls on diffuser characteristics show: coefficient of full pressure losses, efficiency coefficient, maximum degree of diffuser expansion, etc.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKIN, Ye.Ye.; GINEVSKIY, A.S.

Effect of initial unsteadiness in the flow on characteristics of diffusion channels. Prom. aerodin. no.12:168-180 '59. (MIRA 13:1)

(Fluid dynamics)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKIN, YE. YE., and GINEVSKIY, A. S.

"Effect of transverse surface curvature on the value of heat-exchange, of asially symmetrical bodies and channels."

Report presented at the 1st All-Union Conference on Heat- and Mass- Exchange, Minsk, BSSR, 5-9 June 1961

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

BASHKIN, V.A. (Moskva); SOLODKIN, Ye.Ye. (Moskva)

Determining the heat transfer coefficient. PMTF no.3:16-24 S-O '61. (MIRA 14:8)

(Heat transmission)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

S/632/61/000/020/007/008
D234/D308

AUTHORS: Ginevskiy, A. S. and Solodkin, Ye. Ye.

TITLE: Hydraulic resistance of ring channels

SOURCE: Moscow. Tsentral'nyy aero-gidrodinamicheskiy institut. Promyshlennaya aerodinamika, no. 20, 1961. Osevyye dozvukovyye kompressory statsionarnogo tipa, 202-215

TEXT: The authors give an approximate solution of the problem of stabilized turbulent flow in pipes having ring-shaped cross-section, for arbitrary values of the ratio of external to internal radius. Well-known solutions for a circular pipe and plane pipe are obtained as limiting cases. Values of empirical constants are determined. The agreement with experimental data is found to be satisfactory. The opinion that data processing with the aid of hydraulic diameter eliminates the effect of the shape of cross-section, is proved to be incorrect. There are 12 figures.

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GOLODKIN, Ye.Ye.

Possibility of using Prandtl and Taylor's turbulent flow models for the solution of turbulent gas flow problems in the absence of solid boundaries. Prom.aerodin. no.23:5-10 '62. (MIRA 16:4)
(Gas dynamics) (Turbulence)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

GINEVSKIY, A.S. (Moskva); SOLODKIN, Ye.Ye. (Moskva)

Effect of the transversal surface curvature on the characteristics of an isothermal axisymmetric turbulent boundary layer of a compressed gas. Izv.AN SSSR.Otd.tekh.nauk.Mekh.i mashinostr. no.1:99-110 Ja-F '63. (MIRA 16:2)

(Boundary layer)

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L 11830-66 EWT(1)/EWP(m)/FCS(k)/EWA(1)/EWA(d) GS

ACC NR: AT6001364 SOURCE CODE: UR/0000/65/000/000/0189/0202

AUTHOR: Solodkin, Ye. Ye. (Moscow); Ginevskiy, A. S. (Moscow)

ORG: None

TITLE: Turbulent nonisothermal flow of a viscous compressible gas in the inlet sections of axisymmetric and flat expanding channels with a null pressure gradient

SOURCE: Teplo- i massoperenos. t. 1: Konvektivnyy teploobmen v odnorodnoy srede (Heat and mass transfer. v. 1: Convective heat exchange in an homogeneous medium). Minsk, Nauka i tekhnika, 1965, 189-202

TOPIC TAGS: fluid flow, hydrodynamics, friction coefficient, boundary layer theory

ABSTRACT: In the inlet section of a channel the velocity, the temperature, the Mach number, and other flow parameters are distributed uniformly over the channel cross section. As the distance from the inlet section increases, a boundary layer arises due to the effect of viscous forces on the walls of the channel and there is an isoentropic flow core at parts of the section located nearer to the axis. It is assumed also that heat transfer affects the velocity and temperature distributions

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only within the boundary layer. It follows that the velocity, temperature, Mach number, and other flow parameters remain constant across the channel in the flow core. Flow in the boundary layer is assumed to be turbulent. The article proposes to solve the given problem taking into account the effect of the transverse curvature of the surface on the axisymmetrical turbulent boundary layer. There follows an extended mathematical development based on the foregoing assumptions. Results of the calculations are exhibited in the form of curves showing the change in the local coefficient of friction resistance along the axis, the length of the initial section of the channel under various conditions, and change in the local heat transfer coefficient along the axis. Orig. art. has: 30 formulas, 6 figures.

SUB CODE: 20/ SUBM DATE: 31Aug65/ ORIG REF: 003/ OTH REF: 000

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PHASE I BOOK EXPLOITATION SOV/5152

Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Sverdlovskoye oblasnoye

Mekhanizatsiya i avtomatizatsiya mashinostroitel'noy [illegible]
ation and Automation in the Machine-Building [illegible]
1959. 519 p. 12,000 copies printed.

Ed.: Ya. V. Pal'mov, Doctor of Technical Sciences; [illegible]
Editorial Board: P. P. V[illegible], Engineer, V. V. [illegible]
Technical Sciences, Ya. V. Pal'mov, Doctor of [illegible]
Forenikov, Candidate of Technical [illegible]
Technical Sciences, K. N. [illegible], [illegible]
Sokolovskiy, Candidate of Technical [illegible]
B. K. Sh[illegible]ev, Candidate of Industrial [illegible]
sor.

PURPOSE: This book is intended for production engi[illegible]
in industrial planning.

COVERAGE: The material presented in this book is [illegible]
developed and tested in the machine-building [illegible]
of Siberia. Articles are written by [illegible]
and their applications in foundries, [illegible]
Other fields of the industry [illegible]
quality control on an industrial scale. [illegible]
and instruments currently used in mechanization and [illegible]
dustrial processes are described and illustrated. [illegible]
said to have been produced by the plants using their [illegible]
economic aspects of mechanization and automation are [illegible]
[illegible]

Mechanization and Automation (Cont.) SOV/5152

4. Mechanization and Automation of Assembling (Dobrov, B. P., Candidate of Technical Sciences, and B. G. Sitilev, Engineer) [illegible]
The use of mechanized tools [illegible]

MECHANIZATION AND AUTOMATION OF INSPECTION

1. Mechanization and Automation of Dimensional Inspection of Parts (Rabinovich, V. V., Candidate of Technical Sciences, and V. V. Kuz[illegible]dalevskiy, Candidate of Technical Sciences) 413

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

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SOLOV'YEV, A.V.; SOLOV'YEV, N.A.; SOLODKINA, O.V.

Effect of total body irradiation on the secretory function of different areas of the stomach. Trudy Inst. fiziol. 6:509-513 '57.
(MIRA 11:4)

1. Laboratoriya fiziologii i patologii pishchevareniya i krovoobrashcheniya (zaveduyushchiy A.V. Solov'yev).
(X RAYS--PHYSIOLOGICAL EFFECT) (STOMACH--SECRETIONS)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

NEVSKAYA, A.A.; SOLODKINA, O.V.

Changes in the higher nervous activity of first grade students during the school day. Uch. zap. LGU no.222:174-182 '57. (MLRA 10:8)

1. Laboratoriya fiziologii grudovykh protsessov Leningradskogo Gosudarstvennogo universiteta.
(NERVOUS SYSTEM) (SCHOOL CHILDREN)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKINA, O.V.

New data on the mechanism of disorders in the secretory function of the stomach following total X irradiation. Trudy Inst. fiziol. 7:513-519 '58. (MIRA 12:3)

1. Laboratoriya fiziologii pishchevareniya (zav. - A.V. Solov'yev). Instituta fiziologii im. I.P. Pavlova AN SSSR.
(X RAYS--PHYSIOLOGICAL EFFECT)
(STOMACH--SECRETIONS)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

MATROSOVA, Ye.M.; SOLODKINA, O.V.

Recording the motor function of isolated pouches from the lesser and greater curvature as a method for analyzing the motor activity of the stomach. Trudy Inst.fiziol. 8:281-289 '59. (MIRA 13:5)

1. Laboratoriya fiziologii pishchevareniya (zaveduyushchiy - A.V. Solov'yev) Instituta fiziologii im. I.P. Pavlova AN SSSR.
(STOMACH)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKINA, O.V.

Influence of total-body roentgen irradiation on the secretion in isolated Pavlov pouches of dogs during simulated feeding. Trudy Inst. fiziol. 9:254-257 '60. (MIRA 14:3)

1. Laboratoriya fiziologii pishchevareniya (zaveduyushchiy - A.V. Solov'yev) Instituta fiziologii im. I.P.Pavlova.
(X RAYS—PHYSIOLOGICAL EFFECT) (STOMACH--SECRETIONS)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

MATROSOVA, Ye.M.; SOLOV'YEV, A.V.; SOLODKINA, O.V.

Relationships between the secretory and motor activity of the lesser and greater curvature of the stomach. Fiziol. zhur. SSSR 46 no. 9:1132-1140 S '60. (MIRA 13:10)

1. From the Laboratory of the Digestion Physiology, Pavlov Institute of Physiology, Leningrad.
(GASTROINTESTINAL MOTILITY) (STOMACH--SECRETIONS)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKINA, Yelena Kirillovna; LOPOVOK, B.N., retsenzent; NAUMOV, K.A., retsenzent; RYABTSEVA, I.L., red.; BARANOVSKAYA, K.P., tekhn. red.

[Oblique bending. Eccentric tension and compression]Kosoi izgib. Vnetsentrennoe rastiazhenie i szhatie. Moskva, Mosk. aviatsionnyi in-t im. Sergo Ordzhonikidze, 1962. 24 p. (MIRA 16:4)

(Beams and girders)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKIY, A.I., inzh.; ZORICH, K.S., inzh.

Automation and mechanization of technical-control processes in machinery plants. Mashinostroenie no.1:76-77 Ja-F '62. (MIRA 15:2)

1. Proyektno-konstruktorskiy tekhnologicheskiy institut Kiyevskogo sovnarkhoza.

(Automation)
(Quality control)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKIY, A.N., uchitel'

Simple method of obtaining ozone. Khim. v shkole 17 no.2:56 Mr-Ap '62. (MIRA 15:3)

1. Srednyaya shkola sovkhoza Chelkarskiy, TSelinogradskaya oblast'.
(Chemistry--Experiments)(Ozone)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

DANILEVSKAYA, Mariya Sergeyevna[Danylevs'ka, M.S.]; GLUSHCHENKO, Ivan Nikitovich [Hlushchenko, I.N.]; SAYCHUK, Konstantin Ivanovich [Saichuk, K.I.]; SOLODKIY, D.I.[Solodkyi, D.I.], red.; POCHEKINO, L. Kh., tekhn. red.

[Attacking the Polesye virgin lands] Nastup na polis'ku tsilynu. Kyiv, Kyivs'ke oblasne knyzhkovo-gazetne vyd-vo, 1961. 42 p. (MIRA 15:3)

(Polesye—Agriculture)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKIY, D.I.[Solodkyi, D.I.], red.; GURVICH, O.G.[Hurvych, O.H.], tekhn. red.

[Happy season of planting; Kievan beacons] Shchaslyvyi zasiv; Kyivs'ki maiaki. Kyiv, Kyivs'ke oblasne knyzhkogo-gazetne vydvo, 1961. 86 p. (MIRA 15:3)

(Ukraine—Agriculture)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

IVANOV, Svyatoslav Pavlovich, zhurnalist; SOLODKIY, D.I., red. [Solodkyi, D.I.], red.; GURVICH, O.G.[Hurvych, O.H.], tekhn. red.

[Good luck, Africa!] Shchasty todi, Afryko! Kyiv, Kyivs'ke oblasne knyzhkovo-gazetne vyd-vo, 1961. 132 p. (MIRA 15:3)

1. Redaktor gazety "Vechirniy Kiiv" (for Ivanov).
(Africa--Politics and government)
(Africa--Social conditions)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

MIROSHNICHENKO, A.B.; Prinimala uchastiye SOLOVTSOVA, K.M., kand. med. nauk; RECHMEDIN, I.O., kand. geogr. nauk, nauchnyy red.; SOLODKIY, D.I., red.; GURVICH, A.G., tekhn. red.

[Dnieper; guidebook]Dnepr; putevoditel'. Kiev, Kievskoe obl. knizhno-gazetnoe izd-vo, 1962. 332 p. (MIRA 16:3)
(Dnieper Valley--Guidebooks)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

MAKHRACHEV, Aleksandr Yakovlevich[Makhrachov, O.], nauchnyy sotr.; MAKARENKO, Guriy Karpovich[Makareni, H.], nauchnyy sotr.; KHORUZHEVSKIY, Nikolay Dem'yanovich[Khoruzhevs'kyi, M.]; SOLODKIY, D.I.[Solodkyi, D.I.], red.; MOROZKO, L.G. [Morozko, L.H.], tekhn. red.

[Cities of Kiev Province and their future]Mista Kyivshchyny, ikh maibutnie. Kyiv, Kyivs'ke oblasne knyzhkovo-gazetne vyd-vo, 1962. 121 p. (MIRA 16:4)

1. Institut ekonomiki Akademii nauk Ukr.SSR (for Makharchev, Makarenko). 2. Korespondent "Kiyevskoy pravdy" (for Khoruzhevskiy).
(Kiev Province--Cities and towns)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

ONOPRIYENKO, Sergey Ivanovich; DONCHENKO, Aleksandr Ivanovich; SOLODKIY, D.I.[Solodkyi, D.I.], red.; MOROZKO, L.G. [Morozko, L.H.], tekhn. red.

[The great campaign] U velykomu pokhodi. Kyiv, Kyivs'ke obl. knyzhkovo-gazetne vyd-vo, 1963. 85 p. (MIRA 17:3)

1. Predsedatel' pravleniya arteli kovshevatskogo kolkhoza imeni Lenina Tarashchanskogo rayona Kiyevskoy oblasti (for Onopriyenko).

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

BC

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Composition of turpentines from *Pinus sylvestris*. V. Krestinski and F. Solonski (J. Appl. Chem., Russia, 1929, 2, 397—401).—Turpentine distilled from wood chips in presence of alkali contained α-pinene 43, Δ^3-carene 35·5, terpinolene 6·5, alcohols ($C_{10}H_{17}$·OH) 7, sesquiterpenes (probably cadinene) 3·5, residue 1·5%. Turpentine distilled in absence of alkalis contained α-pinene 42·5, Δ^3-carene 32·5, terpinolene 4, alcohols 14, sesquiterpenes 3, residue 4%. CHEMICAL ABSTRACTS.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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ca

72

Refining of pine pitch with soda. F. Solodkii. *Zhur. Prikladnoi Khim.* 2, 509-619(1929).—Fire distn. is wasteful and yields low-grade products. Extn. with solvents is beginning to develop in Russia, but specialists are lacking and the fire hazard is considerable. The sulfite method yields high-grade cellulose, but rosin and turpentine are contaminated with S compds. The NaOH and Na_2CO_3 processes are similar. Although they yield high grade products, they are expensive, but this fact does not prevent their spread in Russia. Little is gained by increasing the concn. of the soda soln. from 2.5% to 5% (yield increases only 3%). With fibers 0.3 cm. long, the extn. of turpentine is practically complete in 2.5 hrs., but with fibers 1 cm. long only 90% of turpentine is extd. after boiling with soda soln. for 3.5 hrs. In com. practice fibers should be boiled for the same lengths of time and not for 10-12 hrs. as is often done. Concn. of the soda soln. must be close to 5% since the sepn. of soaps on cooling weaker solns. is unsatisfactory. Salting out the soaps from such weak solns. imparts a dark color.

V. Kalichevsky

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

ca

22

Composition of the alcoholic fraction of turpentines. V. Krestinskii, F. Solodkii and G. Tolskii. *Zhur. Prikladnoi Khim.* 3, 601-8(1930); cf. *C. A.* 22, 4564. The alc. fractions of turpentines from *Pinus sylvestris* contain α-pinene, Δ³-carene, *d*-camphor, probably terpinenol 4, a satd. alc., a sesquiterpene (m. 82-3°) and apparently cadinene (m. 114-5°) as well as other components. The work is being continued.

V. Kalichevsky

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1A

22

"Winter" turpentine. F. Solodkin and T. Vaskovskaya. *Lesoznim. Prom.* 1, No. 5-6, 33-4(1932).—An investigation of turpentine produced from pine trees cut in the winter was made on the basis of statements made by Filipovich and Vuisotzkaya (*C. A.* 24, 4579). No chem. difference could be detected between the summer and the winter turpentine. The turpentine contains pinene and carene (about 64% and 28%). The former is detected by the b. p. (155-156°), the coeff. of the refractive dispersion of 1.974 and 1.144, the *n* of 1.47056-1.46839, the dispersion of the refraction amounting to 0.01556-0.01534, and, the m. p. of the nitrosochloride (103°). The properties of carene could not be properly established because of the presence of pinene and higher hydrocarbons. Properties of fractions obtained on distg. the turpentine *in vacuo* are tabulated.

A. A. Boehtlingk

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PROCESSES AND PROPERTIES INDEX

The composition of the alcohol fraction of tar turpentines from Pinus silvestris. V. Krestinskii and F. Solodkii. *J. Applied Chem.* (U. S. S. R.) 6, 508-18(1933).—A sample of turpentine oil contained 72% of a complex terpene-alc. mixt. of 2 classes. Class *A* was composed of unsatd. tertiary alcs. of the compn. $C_{10}H_{18}O$ and of satd. tertiary alcs. of the compns. $C_{10}H_{18}O$ and $C_{10}H_{20}O$, in about equal amts. Among the unsatd. alcs. of the $C_{10}H_{18}O$ type were 4-terpinenol and phellandrene hydrate; the alcs. $C_{10}H_{20}O$ were represented by 4-*p*-menthanol and the satd. $C_{10}H_{18}O$ by a bicyclic tertiary alc. probably belonging to the carane group. Class *B* also was a mixt. It contained 20% satd. alcs., among which borneol was detected, and 80% of unsatd. alcs., which were a mixt. of silvcoterpineols. Camphor also was found in class *A*.

A. A. Boehtlingk

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Ca

M

PROCESSES AND PROPERTIES INDEX

Pine oil. F. Solodkii. *Lesokhimicheskaya Prom.* 3, No. 4, 16-19(1934).—The yield of pine oil from freshly gathered pine needles, cut into at least two pieces amounted on steam distn. in a metal still to 0.23%. Steam distn. in a lab. flask yielded 0.18% oil, and after the extd. needles were cut into smaller pieces another 0.23% was extd. in a 2nd distn. Prolonged distn. yields an oil of a bad odor. The oil obtained had d. 0.[illegible]-0.[illegible], α_D —0.87 to —2.47, acid no. 0, esterification no. 1.20-1.73 and n_D^{17} 1.47[illegible]-1.47[illegible]. The oil contained hydroxyl groups (Tsurevitinov) after drying over Na_2SO_4 2.67-3.42% and after an addnl. drying over anhyd. $CaCl_2$ and KOH 3.50%; this corresponds to a content of 38.5% of alcohols of the compn. $C_{10}H_{17}O$.

A. A. Boehtlingk

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

27

Causes of the darkening of rosin soap and data on the characteristics of individual rosin components. F. Sobolkii. *Lesokhimicheskaya Prom.* 5, No. 7, 20 (1934). —Darkening of rosin soaps is due to the presence of unstable acids; these can be removed in part by salting out. Soaps prepd. from gum rosin have a better color than those from wood rosin. These acids can also be removed by boiling the soap soln., simultaneously blowing with air and then salting out. The exptl. procedure is described and a literature review is appended. A. A. Boehtlingk.

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CA

22

Needles of coniferous trees – a raw product for new wood chemistry processes. F. Solodkii. *Lesokhim. Prom.* 4, No. 8, 16(1935).—Conifer needles yield per 1000 kg.: up to 100 kg. of a high-grade fiber suitable for cloth manuf., 100,000 daily (human) portions of vitamin C, 60 kg. tar, 12 kg. essential oils, 150 kg. sol. org. products, such as tanning substances, pectins, saccharides, etc., and a chlorophyll dye. A. A. Boehtlingk

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Lower-boiling fractions of the essential oil from the pine tree. F. Sokolskii and S. Maievskaya. *Lesokhim. Prom.* 4, No. 10, 19-21(1935); cf. *C. A.* 29, 1837.—The essential oil b. 180° contains *d*-pinene 43, Δ^3-carene 20, *l*-limonene 13, alcs. of the compn. $C_{10}H_{18}O$ about 3, sesquiterpenes 15 and esters 3.5% (cf. Payard, *C. A.* 29, 1139[1]). The compn. of the essential oil is probably affected by climatic, geographic and type variations. The analytical methods of Darmois-Dupont were used.

A. A. Podgorny

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

Ca

17

Removal of bitter constituents from pine-needle extract. F. T. Solodkiĭ and A. A. Ryabinin. Russ 40,679, April 30, 1936. The aq. extract is mixed with a mixt. of alc. and C_6H_6 and the alc.-benzene layer contg. the bitter substance is decanted.

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BC

B-2-8

Alcohol fraction of turpentine oil from Pinus sylvestris V Krestinski and F Solodki (J. ppl chem russ., 1936, 6, 508-518). A sample fo turpentine oil contained 72% of alcohols which after separation formed two layers of which one contined equal vols. of saturated and unsaturated alcohols, amongst which phellandrene hydrate terpinen 4 ol, p menthanol, a dicyclic alcohol, $C_{10}H_{18}O$ (Probably acarene derivative and traces of d camphor were identified whilst the other consisted of 20% of borneol and 80% of an unseparated mixture of sylvesterpineols.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

BC

8-II-2

[illegible] F. [illegible] and A. [illegible] (Lesochim. Prom., [illegible]) The vitamin-C content is >0.3%. [illegible] April—May may have three times as much -C as [illegible] Ch. Abs. (e)

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MATERIALS INDEX

AUTHOR INDEX

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27

Ca

Experimental improvement of rosin soap. F. Solodkii. *J. Applied Chem.* (U. S. S. R.) 11, 85 [illegible] (1938). The soap soln., contg. not over 15% of tar-like substances, should be treated with CO_2 at 2 atm. pressure at a temp. not higher than room temp., or at 4 atm. at [illegible]. Under the latter conditions, the product has a low moisture content (about 20%). Const. stirring or spraying of the soln. during passage of the CO_2 is essential. The process is completed in 5-15 min. The product contains [illegible] of free rosin acid on the total free and bound acids. Fourteen references. A. A. Podgorny

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1ST AND 2ND ORDERS

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3D AND 4TH ORDERS

23

Purifying the soap from waste sulfite liquor. F. T. Soloukhl. Russ. 56,075, Nov. 30, 1939. The soap is extd. with hot RtOH, the ext. is cooled to sep. phytosterols, and the alc. is distd. off.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

2G

Autoxidation of turpentine. I. Thermal decomposition of products of oxidation at a medium temperature with the separation of hydrogen. F. T. Solodkii and N. A. Platunov. *J. Applied Chem.* (U. S. S. R.) 12, 1529-35 (in French, 1535)(1939).—Turpentine when heated to 135-140° begins to decompose rapidly with the formation of H, CO, CO_2, CH_4 and formic acid, H prevailing (about 65%) among the decompn. products. The residue in the flask is a mixt. of substances physical constants of which are tabulated. A. A. Bochtlingk

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CA

27

The composition of crude, technical cymene obtained in the sulfite cooking of cellulose. P. T. Sokolkil. *Lesokhim. Prom.* 3, No. 4, 8-11(1940); *Chem. Zentr.* 1940, II, 1902-3.—During the cooking of the sulfite pulp up to 1 kg. of crude oil per metric ton of the cellulose was collected in the condensate. The major portion of this distd. over at 174-7° (b. p. of pure cymene 173°). The crude oil contained 3% of material which was not volatile with steam. By oxidation with $KMnO_4$ another 12-17% was converted into matter not volatile with steam. About 82-7% of the oil (cymene) was resistant to the action of $KMnO_4$ and volatile with steam. As a control test, 100 g. of the oil was treated with HCl and water vapor and subjected to simple distn. In this way 2 fractions were obtained: (1) 77.5 g. b. 172-8° and (2) 10.8 g. b. 178-80°. This represented an 80-82% yield of tech. cymene. For identification, this was converted into *p*-hydroxyisopropylbenzoic acid (I) as follows: 2 g. of the material which had been purified by oxidation with $KMnO_4$ in the cold was boiled on the water bath with 12 g. of 4% $KMnO_4$ with occasional shaking, filtered, evapd., treated with alc., and the latter distd. off. The residue was dissolved in water, decompd. with H_2SO_4, extd. with ether and allowed to crystallize. The m. p. was 155-7° as compared with 155-6° for I. The crude oil had an acid no. of 0.9, an ether no. of 0 and an acetyl no. of 42. It therefore contained no free acid or ether but did contain 11.5% of terpene alcs.

M. G. Moore

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CA

23

The composition and possibilities of utilization of sulfate soap. F. T. Solodkii. *Bumazhnaya Prom.* 19, No. 2, 18-21(1941); *Chem. Zentr.* 1941, II, 3263. A sulfate soap, a by-product of sulfate pulp manuf., contained fat acids and resin acids 47.1, neutral products 7.7, phenols 1.0, "incrustants" insol. in water and ether 1.97, moisture 35.4, free Na_2CO_3 0.25, total alkali calcd. to Na_2O 5.4 and S 0.3%. Two com. methods for the manuf. of phytosterol (I) and the purification of tall oil (II) are described. According to the first process the extn. is carried out with turpentine and the I is isolated from the ext. The sulfate soap is freed from the neutral products and is decompd. with H_2SO_4; any residual turpentine remaining from the extn. helps in the sepn. of II from the insol. incrustants. According to the second process the I is pptd., whereby the soap is freed from most of the insol. incrustants. The whole mass is treated with hot alc. (which does not dissolve the mech. contaminants and the insol. incrustants) and decanted. On cooling, the cryst. I pptd. within 1-2 hrs. The product thus purified has lost its disagreeable odor. Although in the first process approx. 10% of II is retained by the incrustants, the second process gives better results and produces a II of higher quality, but the yield of I is smaller.

Leopold Scheflan

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1ST AND 2ND ORDERS

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3RD AND 4TH ORDERS

17

Ca

Utilization of tree needles; extraction of carotene and vitamin C. F. T. Sokolov. *Lesnaya Prom.* 1944, No. 3, 4-6.—The av. contents of ascorbic acid and carotene in the needles are 400 and 20 mg. %, resp., on the dry wt. of the needles. The seasonal variation of these values is not great. An improved method of extn. is to cover the needles, without sepn. from the twigs, with H_2O at 98-100°. This melts the waxy coating and ascorbic acid diffuses into the H_2O. This process extn. up to 60% of the acid. After extn. of vitamin C, the carotene can be extd. by means of aq. alkali or of org. solvents. Extn. with aq. alkali yields 20 g. of carotene per ton of dry needles, and requires 6 kg. of alkali per g. of carotene. Extn. with benzene, BuOH, acetone, dichloroethane, etc., yields 60 g. of carotene per ton of dry needles, and also over 100 kg. per ton of dry needles of other therapeutically valuable substances. The loss of solvent is 3 kg. per g. of carotene. The end product (concentrate) is a carotene-balsam aq. paste. Chlorophyll also can be obtained from the needles.

M. Hosch

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SOLODKIY, Fedor Timofeyevich; AGRANAT, Asne Lazarevna; SOKOLOV, T.D., redaktor; SVETLAYEVA, T.S., redaktor izdatel'stva; SHITS, V.P., tekhnicheskiy redaktor

[Production of chlorophyll-carotin paste from pine needles] Proizvodstvo khvoinoi khlorofillo-karotinovoi pasty. Moskva, Gos. lesbumizdat, 1956. 29 p. (MLRA 9:10)

(Chlorophyll) (Carotene) (Ointments)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKIY, F. T.

Aqueous extracts of conifers P. T. Solodkii and A. L. Agranat. U.S.S.R. 103,508 [illegible] The [illegible] extn. of preceding abstr. [illegible] the same app. [illegible] the chlorophyll [illegible] ep [illegible] ing the ligrom [illegible] The [illegible] extn. [illegible] hrs. M. [illegible]

7

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

Solodkii, P.

Utilization of live-wood elements. p. 195.

BIOLOGICHESKAIA NAUKA: SELSKOMU I LASNOMU. (Latvijas PSR Zinatnu Akademija Biologijas Zinatnu nodala) Riga, Latvia, No. 16, 1958. In Russian.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 8, August 1959.
Uncl.

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SLAVYANSKIY, Aleksey Konstantinovich, prof.; SHARKOV, Vasiliy Ivanovich, prof.; LIVEROVSKIY, Aleksey Alekseyevich, dots.; BUYEVSKOY, Anatoliy Vasil'yevich, dots.; MEDNIKOV, Fedor Alekseyevich, dots.; LYAMIN, Vladimir Aleksandrovich, dots.; SOLODKIY, Fedor Timofeyevich, dots.; TSATSKA, Elio Mat'-Iudovich, dots.; DMITRIYEVA, Ol'ga Andreyevna, assistent; NIKANDOROV, Boris Fedorovich, inzh.; GORDON, L.V., kand. tekhn. nauk, retsenzent; SUKHANOVSKIY, S.I., red.; KHOT'KOVA, Ye.S., red.izd-va; SHIBKOVA, R.Ye., tekhn. red.

[Chemical technology of wood] Khimicheskaia tekhnologiia drevesiny. Moskva, Goslesbumizdat, 1962. 574 p. (MIRA 16:4)
(Wood—Chemistry)

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ACC NR: AP6012443 (A) SOURCE CODE: UR/0359/65/000/005/0139/0145

AUTHOR: Lysyak, N. K. (Aspirant); Agranat, A. L. (Senior research associate); Solodkiy, F. T. (Docent, Candidate of technical sciences)

ORG: Special Laboratory for Utilization of Living Tree Elements, Leningrad Forestry Engineering Academy (Problemnaya Laboratoriya po ispol'zovaniyu zhivykh elementov dereva Leningradskoy lesotekhnicheskoy akademii)

TITLE: Investigation of the nonsaponifiable fraction of the resinous material in coniferous needles. Report I

SOURCE: IVUZ. Lesnoy zhurnal, no. 5, 1965, 139-145

TOPIC TAGS: soap, wood chemical product, vitamin, chlorophyll, resin

ABSTRACT: About 30% of the resinous material in coniferous needles is converted to a nonsaponifiable fraction during saponification of this material to produce sodium chlorophyllin. The authors study the composition of the nonsaponifiable fraction and isolate components of practical value from it: phytol, β-sitosterol, β-carotene and vitamin E. The resultant data are tabulated. The highest phytol concentration was observed in fractions distilled at 135°C in a vacuum of $5 \cdot 10^{-3}$ mm Hg. A detailed description of spectral analysis of this fraction will be given in another paper in this series. Orig. art. has: 8 tables.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKIY, I.F., starshiy nauchnyy sotrudnik

Effectiveness of checkrow placement in sugar beet cultivation. Nauch. trudy Ukr. nauch.-issl. inst. rast. sel. i gen. 2:223-228 '58. (MIRA 14:1)

(Sugar beets) (Plants, Space arrangement of)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKIY, I.F., starshiy nauchnyy sotrudnik

Effect of granulated superphosphate on the yield of various crops. Nauch. trudy Ukr. nauch.-issl. inst. rast. sel. 1 gen. 2:277-285 '58. (MIRA 14:1)
(Field crops--Fertilizers and manures)
(Phosphates)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

GLYANTSEV, A.F., kand.sel'skokhoz.nauk; SOLODKIY, I.F., starshiy nauchnyy sotrudnik

Developing specific measures for cultivating corn. Nauch. trudy Urk. nauch.-issl. inst. rast. sel. i gen. 2:301-305 '58. (MIRA 14:1)

(Corn (Maize))

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKIY, I.F. [Solodkyi, I.F.], starshiy nauchn. sotr.; YAKIMENKO, O.P., kand. sel'khoz. nauk; PARKHOMENKO, O.I., red.; SHEVCHENKO, M.G. [Shevchenko, M.H.], tekhn. red.

[How to increase the yield of millet and buckwheat] IAk zbil'-shyty vrozhai prosa i hrechky. Kharkiv, Kharkivs'ke knyzhove vyd-vo, 1961. 39 p. (MIRA 14:11)
(Millet) (Buckwheat)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

1. SOLODKIY, M.

2. USSR (600)

4. Eggs-Production

7. Organizing provincial and regional egg-laying contests. Ptitsevodstvo no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKIY, M.M., zootekhnik.

Raising poultry in cages and introducing the runway system. Nauka i perod. op. v sel'khoz. 7 no.4:71-73 Ap '57. (MLRA 10:6)

1. Poltavskaya oblastnaya kontora inkubatorno-ptitsevodnoy stantsii.
(Poultry houses and equipment)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

KORENNOY, A.[Koriennoi, O.]; MATIYKO, N.[Matiiko, M.]; SOLODKIY, V.V.[Solodkyi, V.V.], red.; GURVICH, O.G.[Hurvych, O.H.], tekhn. red.

[Technological progress in electrical welding] Elektrozvariuvannia i progres tekhniky. Kyiv, Kyivs'ke oblasne knyzhkovogazetne vyd-vo, 1960. 37 p. (MIRA 15:7)
(Electric welding)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

STARSHINOV, B.N.; SINITSKIY, V.D.; SEN'KO, G.Ye.; GULYGA, D.V.; BABIY, A.A.; KHORUZHIY, A.G.; Prinimali uchastiye: OSTROUKHOV, M.Ya.; SAVELOV, N.I.; PLISKANOVSKIY, S.T.; MOISEYEV, Yu.G.; LAVRENT'YEV, M.L.; TARASOV, F.P.; ZAGREBA, A.V.; KAMENEV, R.D.; TKACHENKO, A.A.; FREYDIN, L.M.; LUKIN, P.G.; POPOV, Yu.A.; MISHIN, P.P.; KARACHENTSEV, M.D.; DOLMATOV, V.A.; AYUKOV, A.S.; PALAGUTA, V.P.; VYAZOVSKIY, Yu.V.; SOLODKIY, Yu.A.; KONAREVA, N.V.; SAPRONOV, Yu.V.; SINITSKAYA, S.K.; SAPRONOV, B.V.; IEKAREV, V.L.; STOLYAR, V.V.; PROKHORENKO, Z.A.; BANDINA, Ye.Ye.

Results of the first year of operation of large capacity blast furnaces. Sbor. trud. UNIIM no.11:34-46 '65. (MIRA 18:11)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

VOLOSHIN, A.I.; BOGOYAVLENSKIY, K.A.; AKHTYRCHENKO, A.M.; TURIK, I.A.; ZHIDKO, A.S.; LYALYUK, V.S.; GABAY, L.I.; ONOPRIYENKO, V.P.; STARSHINOV, B.N.; BABIY, A.A.; SAVELOV, N.I.; Prinimali uchastiye: TORYANIK, E.I.; VASIL'YEV, Yu.S.; SHEMEL', T.I.; SENYUTA, V.I.; BONDARENKO, I.P.; AMSTISLAVSKIY, D.M.; ANDRIANOV, Ye.G.; SERGEYEV, G.N.; ZAMAKHOVSKIY, M.A.; LYUKIMSON, M.O.; IVONIN, V.K.; TSIMBAL, G.I.; SEN'KO, G.Ye.; KONAREVA, N.V.; SOLODKIY, Yu.L.; LUKASHOV, O.G.; TARASOV, D.A.; GORBANEV, Ya.S.; SUPRUN, I.Ye.; TIKHOMIROV, Ye.I.; KONONENKO, P.A.; PROKOPOV, V.N.; GULYGA, D.V.; PLISKANOVSKIY, S.T.; PONOMAREVA, K.Ye.

Effect of the length of coking on coke quality and the performance of blast furnaces. Koks i khim. no.12:26-32 '61. (MIRA 15:2)

1. Ukrainskiy uglekhimicheskiy institut (for Voloshin, Bogoyavlenskiy, Akhtyrchenko, Turik, Zhidko, Lyalyuk, Toryanik, Vasil'yev, Shemel'). 2. Zhdanovskiy koksokhimicheskiy zavod (for Gabay, Senyuta, Bondarenko, Amstislavskiy, Andrianov, Sergeyev, Zamakhovskiy, Lyukimson, Ivonin, TSimbal). 3. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov (for Onopriyenko, Starshinov, Babiy, Sen'ko, Konareva, Solodkiy). 4. Zavod "Azovstal'" (for Savelov, Lukashov, Tarasov, Gorbanev, Suprun, Tikhomirov, Kononenko, Prokopov, Gulyga, Pliskanovskiy, Ponomareva).

(Coke)
(Blast furnaces)

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SOLODKIY, Z.

"An attachment for Grinding Roller Faces", Stanki i Instrument, 10, No.7, 1939, Kiev Machine Tool Plant imeni Gor'kiy

Report U-1505, 4 Oct 1951

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SHAPOVALOV, N.A., inzh.; SHEPETUKHA, M.G., inzh.; DYMSHITS, M.A., inzh.; SOLODKIY, Z.P., inzh.

Organizing the repair and modernization of industrial equipment in the enterprises of the Ukrainian S.S.R. Mashinostroenie no.6: 5-8 N-D '64 (MIRA 18:2)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

USSR/Petroleum
Petroleum Industry
Standards

Sep 48

"From Experience of Utilizing Average-Progressive Technical Economic Standards," A. P. Solodko, 2 pp

"Neft Khoz" No 9

60/49T102

Discusses poor use of large petroleum reserves during 1947 in enterprises of the Main Adm for Extraction and Production of Industrial Materials, Min of Petroleum Ind, Southern and Western Regions, as a result of poor utilization of equipment, raw materials, etc., which in turn comes from failure

[redacted]

60/49T102

USSR/Petroleum (Contd)

Sep 48

to adopt and adhere to established mean-progressive technical economic norms.

[redacted]

60/49T102

SOL DKO, A.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

[illegible], [illegible]

Storage [illegible] [illegible], [illegible] [illegible]-techn. [illegible] [illegible] [illegible]-[illegible]
lit-[illegible], 19[illegible]. [illegible] p. (51-40002)

TP692.5.Sc

1. Petroleum - Storage. 2. Tanks. 1. Vaisman, B. A. [illegible]

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKO, A. P. and VAYSMAN, B. A.

"The Problem of Containers for Petroleum Products," (Neftetarnoye Delo), Gostoptekhizdat, 1949

Summary D 137215, 14 Feb 55

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKO, A.

"Against the Underestimation of Petroleum and Gas in the Economics of the Country," Pravda, page 2, May 14, 1955

Translation - D 306312, 23 Aug 55

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKO, A. [P.] (Engr.)

"Against Underestimation of Oil and Gas in the Economy of the Country"

TASS - Yellow Daily Rpt #95, 16 May 55

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLOD'KO, D., prokhodchik; ZAKHAROV, A., rabochiy ochistnogo zaboya; ZADOROZHNYY, M., vzryvnik; NOVIKOV, V., rabochiy ochistnogo zaboya; MASLIKOV, D., buril'shchik; YURCHENKO, I., gornyy master; ZARETSKIY, P., brigadir elektrikov; RASSKAZOV, L., litsotrudnik shakhtnoy gazety; VIZEN, I.; DOKUCHAYEV, A.

Our inspection raid. Mast.ugl. no.10:11-13 O '59. (MIRA 13:3)

1. Reydovaya brigada zhurnala "Master uglya." 2. Literaturnyy sotrudnik zhurnala "Master uglya." (for Vizen, Dokuchayev).
(Donets Basin--Coal mines and mining)
(Mine management)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

L 40779-65 EWG(j)/EWG(r)/EWT(1)/FS(v)-3/EWG(v)/EWG(a)-2/EWG(c) Pe-5 DD
ACCESSION NR: AP5006983 S/0240/65/000/002/0106/0109

30
B

AUTHOR: Solodkov, A. S.

TITLE: Changes of the electrocardiogram in rabbits under the influence of increased atmospheric pressure

SOURCE: Gigiyena i sanitariya, no. 2, 1965, 106-109

TOPIC TAGS: cardiovascular system, electrocardiography, pressure effect, myocardium

ABSTRACT: Rabbits were subjected to 6 atmospheres pressure in a recompression chamber for 45 minutes followed by decompression. The rabbit EKGs were recorded before the animals were placed in the chamber, immediately after, and at 12, 24, 48, and 72 hours intervals after removal. Lasting changes in the EKG indicated the rather persistent nature of the metabolic disturbances in the heart as a result of the increased pressure. Complete disappearance of disturbances in the myocardium might also occur if a definite interval was maintained between applications of increased pressure. Orig. art. has: 2 figures.

ASSOCIATION: none

Card 1/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

L 40779-65

ACCESSION NR: AP5006983

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SUBMITTED: 15Oct63 ENCL: 00 SUB CODE: LS, PH

NO REF SOV: 003 OTHER: 004

B48

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

L 29187-66 EWT(1) SCTB DD

ACC NR: AP6017527 SOURCE CODE: UR/0177/66/000/005/0060/0060

AUTHOR: Solodkov, A. S. (Major in medical corps ; Candidate of medical sciences)

ORG: none

TITLE: Basal metabolism level in submariners and divers

SOURCE: Voyenno-meditsinskiy zhurnal, no. 5, 1966, 60

TOPIC TAGS: human physiology, basal metabolism, closed ecology system , sealab, underwater physiology, respiratory physiology, naval physiology, biologic metabolism

ABSTRACT: Complex basal metabolism studies were made on 152 submariners and 40 navy divers under hospital conditions. All the subjects had seen undersea service 4 to 5 weeks before the study; their diets and living conditions during the study were identical. Basal metabolism was determined by spirometabolograph. Spirograms were read with a special scale, adjustable for ambient temperature and pressure, as well as sex, height, weight, and age of the subject, and showing percent deviation from the norm. Results indicate that the basal metabolism of submariners is generally subnormal (5% to 40% below the norm for a given age, sex, height, and weight). Basal metabolic indices were higher than normal (by 3% to 20%) in only 27 subjects. The average basal metabolism for the whole group of submariners was 9% below normal. The degree of depression was dependent on length of service (7% below normal for the 87 subjects with 1 to 2 years' service; 14% below normal for the 65 subjects with 3 to

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L 29187-66

ACC NR: AP6017527

4 years' service). The basal metabolism of divers was likewise found to be generally subnormal (4% to 33% below established norms). Basal metabolic indices were normal in 3 subjects and above normal (by 2% to 26%) in 9 subjects. The average basal metabolism for the whole group of divers was 13% below normal (12% for the 23 subjects with 1 to 2 years' service; 15% for the 17 subjects with 3 to 4 years' service). The depression observed in basal metabolism may be attributed to a number of factors. It is known that frequent training with individual O_2 breathing devices leads to development of an "economical" type of respiration with a lowered oxygen requirement. Oxygen consumption did decrease during the tests when O_2 was being respired from the spirometabolograph: average O_2 consumption was 228 cm^3/min for submariners and 249 cm^3/min for divers. Other factors depressing basal metabolism (especially in submariners) may be hypodynamia, increased ambient temperature and humidity, lowered partial O_2 and increased partial CO_2 pressures, and prolonged absence of natural illumination and UV radiation. [DP]

SUB CODE: 06/ SUBM DATE: none/ ATD PRESS: 5004

Card 2/2 BLG

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

L 38107-66 EWT(1) SOTR DD

ACC NR: AP6021227 (N) SOURCE CODE: UR/0396/66/010/003/0067/0067

AUTHOR: Solodkov, A. S. (Vladivostok)

ORG: none

24
B

TITLE: The effect of high atmospheric pressure on the cardiovascular system

SOURCE: Patologicheskaya fiziologiya i eksperimental'naya terapiya, v. 10, no. 3, 1966, 67

TOPIC TAGS: cardiovascular system, atmospheric pressure, myocardiography, ECG

ABSTRACT: The functional state of the myocardium and the pathomorphology of the heart was studied. Experiments were carried out on 92 rabbits, cats and mice (28 controls). The animals were subjected to pressures of 6 atm for 40 minutes. In the first series, the animals were exposed to high pressures twice, at 1 day intervals; in the second, twenty times at 1 day intervals; in the third, 36 times at 1 day intervals; in the fourth, twenty times at 2 day intervals. EKG's were registered in rabbits in all series. As a rule all shifts returned to normal 2 days after the experiments. Pathological findings ranged from dilation of small vessels and capillaries, plethora and stases, to perivascular cerebral hemorrhage and fibrosis of the myocardium. Controls and experimental animals exposed to high pressures at two-day intervals, showed no degenerative chang-

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Card 2/2 MLP

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

VYGODSKIY, Mark Yakovlevich; SOLODKOV, V.A., red.; BRUDNO, K.F., tekhn. red.

[Analytic geometry] Analiticheskaia geometriia. Moskva, Fizmatgiz, 1963. 528 p. (Snovy vysshei matematiki, no.1) (MIRA 16:12)

(Geometry, Analytic)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKO, V.P.

On the problem of the function of several economic laws in the world socialist system. Vest.Mosk.un.Ser.8: Ekon., filos. 15 no.3:3-13 My-Je '60. (MIRA 13:6)
(Economics)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

STERNZAT, M.S.; SHADRINA, Yo.N.; IL'IN, B.V.; SOLODKOV, A.G.

Ship anemovane. Trudy NIIGMP no.7:155-167 '59. (MIRA 13:5)
(Anemometer)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKOV, A.S., starshiy leytenant meditsinskoy sluzhby

Incidence and treatment of epidermophytosis on shipboard; abstract. Voen.-med.zhur. no.3:78 Mr '61. (MIRA 14:7)
(RINGWORM)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKOV, A.S., kapitan meditsinskoy sluzhby

Endothelial reactions in divers. Voen.-med. zhur. no.9:69-70 S '61. (MIRA 15:10)

(DIVING, SUBMARINE--PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKOV, A.S. (poselok Promyslovka Primorskogo kraya)

Modification of a sound for taking the contents of the duodenum. Lab. delo 10 no.5:315 '64. (MIRA 17:5)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKOV, Mikhail Vasil'yevich; VOLODIN, V.S., red.

[Capital and surplus value; lecture on the course of capitalist economics for the students of economics faculties in state universities] Kapital i pribavochnaia stoimost'; lektsiia po kursu politicheskoi ekonomii kapitalizma dlia studentov ekonomicheskikh fakul'tetov gosudarstvennykh universitetov. Pod red.V.S.Volodina. Moskva, Izd-vo Mosk.univ., 1959. 45 p. (MIRA 15:8)
(Economics - Study and teaching)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

TSAGOLOV, N.A., prof., red.; KHESSIN, N.V., dotsent, red.. Prinimali uchastiye: SOLODKOV, M.V., dotsent; CHERKOVETS, V.N., kand.ekon. nauk; VOLKOV, F.M., kand.ekon.nauk; VOZNESENSKIY, L.A., nauchnyy sotrudnik. GORDEYEVA, L.N., red.; YERMAKOV, M.S., tekhn.red.

[Problems of political economy] Voprosy politicheskoi ekonomii. Pod red. N.A.TSagolova i N.V.Khessina. Moskva, 1960. 278 p. (MIRA 13:4)

1. Moscow. Universitet.
(Economics)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKOV, Mikhail Vasil'yevich, kand. ekonom. nauk; KANTER, A.I., red.; ATROSHCHENKO, L.Ye., tekhn. red.

[Socialist capital reproduction under the conditions of the building of communism] Sotsialisticheskoe rasshirennoe vosproizvodstvo v usloviiakh stroitel'stva kommunizma. Moskva, 1961. 28 p. (Narodnyi universitet kul'tury. Obshchestvenno-politicheskii fakul'tet, no.18) (MIRA 15:3)
(Economics)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

SOLODKOV, M.V.; DEMENT'YEV, V.A., red.; MURASHOVA, V.A., tekhn. red.

[Large-scale machine production; lecture on a course in the economics of capitalism] Krupnoe mashinnoe proizvodstvo; lektsiia po kursu politicheskoi ekonomii kapitalizma. Moskva, Vysshaia shkola, 1962. 42 p. (MIRA 15:6)
(Economics) (Capitalism)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

DOLINSKIY, Pavel Akimovich,; SOLODKOV, P.A., red.; LAVRENOVA, N.B., tekhn. red.

[Centering the movements of marine diesels] TSentrovka dvizheniia sudovykh dizelei. Izd. 2., perer. i dop. Moskva, Izd-vo "Morskoi transport," 1958. 186 p. (MIRA 11:11)
(Marine diesel engines)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652210019-4

CA

10

Action of aromatic nitro compounds on arylmagnesium halides. D. N. Kursanov and P. A. Sokolkov. *J. Gen. Chem.* (U. S. S. R.) 5, 1487-[illegible]. Modification of the Gilman and McCracken interpretation (C. A. 21, 1800) of the mechanism of the reaction of $ArNO_2$ with $ArMgX$ (X = a halogen) with the formation of diaryls and diarylamines is based on the expt. evidence of the intermediate formation of phenols: $RNO_2 + R'MgX \rightarrow RR'N(O)OMgX$ ($+ R'MgX$) $\rightarrow RR'NOMgX + R'OMgX$, $RR'NOMgX + 2R'MgX \rightarrow RR' + RR'NMgX + (MgX)_2O$, and the summation formula: $RNO_2 + 4R'MgX \rightarrow RR'NMgX + R'OMgX + RR' + (MgX)_2O$. Diarylamines and phenols are formed by hydrolysis of $R'R'NMgX$ and $R'OMgX$, resp. The condensation was carried out in the cold by a slow addn. of 15.4 g. $PhNO_2$ in Et_2O to PhMgBr (from 78.5 g. PhBr and 12 g. Mg) in a H_2 atm., giving 63% PhOH, 50% Ph_2 and 63% Ph_2NH of the theory according to the above formula. o-$C_6H_4NO_2$ with PhMgBr gave 64% PhOH, 62% Ph_2 and 48.0% o-C_6H_5NHPh, m. 58.5-60.5° (ligroin). $PhNO_2$ with o-C_6H_5MgBr gave 44.3% o-C_6H_5OH, and with p-MeC_6H_4MgBr 54.0% p-MeC_6H_4OH, 60% p,p'-bitolyl and 60.3% MeC_6H_4NHPh, m. 88.3-9°.

Chas. Blanc

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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CH

A certain complicated case of anomaly in the Grignard reaction. D. N. Kursanov and P. A. Sokolov. *Compt. rend. acad. sci. U. R. S. S.* 27, 797-800 (1940) (in English). —In the reaction of cyclopentylmagnesium chloride with BzH there was obtained, besides the normal product, 0.9 g. (from 8 g. of C_5H_9Cl) of 1,3-dibenzylidenecyclopentanone. That the latter substance was due to oxidation of the C_5H_9MgCl and reaction of this oxidation product with the aldehyde is indicated by the following expts. in each of which the cyclanol was added to MeMgI in dry ether, followed by the addn. of the aldehyde (2 mols. aldehyde per mol. of cyclanol) after the CH_4 had been evolved, and the mixt. was allowed to stand until the next day when it was hydrolyzed with acid (NH_4Cl in the case where furfural was used) and the ketone or other products sepd. after removal of the ether by distn. Cyclopentanol (8.6 g.) and 31.8 g. BzH yielded 17.6 g. 1,3-dibenzylidenecyclopentanone, m. 189-90°, and 3.2 g. benzyl alc. (p-nitrobenzoate, m. 82.8-84°). Cyclohexanol (20.2 g.) and 63.6 g. BzH yielded 25.9 g. 1,3-dibenzylidenecyclohexanone, m. 115.5-17°, and 10.5 g. benzyl alc. Cyclohexanol (10 g.) and 45.3 g. m-$O_2NC_6H_4CHO$ yielded 3.8 g. cyclohexanone (semicarbazone, m. 165-6°), 3.2 g. of di-m-nitrobenzylidenecyclohexanone, m. 191-2°, and 9.56 g. of m-nitrobenzyl alc., b.p. 157° (benzoate, m. 69-9.5°). Cyclohexanol (30 g.) and 80.4 g. furfural yielded 14.3 g. difurfurylidenecyclohexanone, m. 145.5 6°, and 9.3 g. of furfuryl alc. (Ph_2C ether, m. 139.5-40.5°). When 10%, 30% and 50% of the Mg iodoalcoholate of cyclohexanol and 30% of the Mg iodoalcoholate of benzyl alc. were added to mixts. consisting of 1 mol. cyclopentanone and 2 mols. BzH and the mixts. allowed to stand 48 hrs., the yields of 1,3-dibenzylidenecyclopentanone were 15.4%, 49.6%, 47.7% and 55.9%, resp., indicating that the Mg alcoholate was the condensation agent for the ketone and aldehyde.

George Avers

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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Ca

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A new method for the preparation of colored derivatives of cellulose. D. N. Kursanov and P. A. Soloshkov. *J. Applied Chem.* (U. S. S. R.) 16, 351-5(1943).—The interaction of pyridine salts of chloromethyl ethers with cellulose is of a cation nature. On this basis a no. of colored derivs. of cellulose were made. Polyoxymethylene (4.8 g.) was mixed with 6 g. *m*-nitrobenzyl alc. in 35 cc. benzene and treated with dry HCl for 2 hrs. with stirring; after standing overnight, the upper layer was sepd. and fractionated to yield 15.7% *m-nitrobenzyl chloromethyl ether*, b_{4} 147.5-8.5°, which treated with pyridine gave the corresponding pyridinium compd. in 90.5% yield. A 2% soln. of the product in water contg. 0.7% NaOAc was used for impregnation of cotton fabric, which was squeezed out, dried at room temp. and heated to 125° for 10 min.; a control batch was left without heat-treatment. Both samples were then subjected in turn to laundering, extn. with benzene, reduction by Na hyposulfite, extn. with 30% AcOH, diazotization and coupling with alk. soln. of 2-naphthol, followed by boiling in soap soln., washing and drying. As a result the heat-treated samples were permanently pigmented, while the unheated samples were rendered colorless. The result was confirmed by decolorizing the product on the cloth by drastic treatment with Na hyposulfite and subjecting to repeated diazotization and coupling, which restored the color. *m*-Aminobenzyl alc. (6.6 g.) in 15 cc. AcOH and 5 g. PhNO in 15 cc. AcOH were mixed; after 30 min. the mixt. was poured into water and the org. layer, after washing with dil. HCl and water, was dried and distd. to yield 60% *PhN:NC$_6$H$_4$CH$_2$OH*, $b_{0.5}$ 181-4°, m. 41.5-6°, which was converted in the usual manner into the corresponding *chloromethyl ether*, $b_{0.5}$ 165-80°, which in turn was converted into the *pyridinium compd.* by heating on the water bath with pyridine for 3 hrs., followed by standing overnight. The product is not substantive to cellulose in the cold, but samples of cotton immersed in 2% soln. in water contg. 0.7% NaOAc, dried at room temp. and heated for 10 min. to 125° yield colored cloth which resists org. solvents. G. M. K.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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Color of cyanine dyes. Absorption of light by molecular compounds between quinoline or pyridine salts and amines. V. A. Izmail'skii and P. A. Solodkov. *Doklady Akad. Nauk S.S.S.R.* 60, 187-90(1948).—On the basis of the previously given classifications, the color of a 1,1'-dialkylpseudocyanine salt is detd. by the interaction between the quinolinic electrophilic component (the imonium chlorophor C:N⁺) and the electrodonor (amine component). By analogy, mol. compds. involving similar electrophilic and electrodonor groups, but not sepd. by CH or a similar group Q, should absorb in very much the same way as the cyanines. The following are examples of such mol. compds. with 1-methylquinoline *p*-toluenesulfonate (I), 1-ethylquinoline iodide (II), and 1-benzylquinoline chloride (III); the compds. with I are formed on grinding the dry substances, compds. with II and III only on wetting with the solvent. The data refer to solns. about 0.07-0.08 *M*, and give, in that order: the mol. compd. (color in solid state), solvent, color of soln., $\lambda_{max.}$ in mμ, log I_0/I (concn. in mole/liter): Ph_3NH + I (yellow-brown), $CHCl_3$, red-brown, 512, 3.01 (0.0826); the same in EtOH, red-brown, 480, 2.65 (0.0826); Ph_3NH + III (ruby-red after recrystn. from amyl alc.), EtOH, red-brown, 503, 1.63 (0.0826); Ph_3NH + II (brown-red), EtOH, brown-red, 482, 2.32 (0.0751); Ph_3NMe + I (light yellow), $CHCl_3$, orange-yellow, 440, 0.92 (0.0826); *p*-$Me_2NC_6H_4NHAc$ + I (dark brown-red), $CHCl_3$, deep red-brown, ~ 480, broad band (0.0819); *p*-$MeC_6H_4NMe_2$ + I, $CHCl_3$, yellow-brown, 435, 1.30 (0.0826); $PhNMe_2$ + I, $CHCl_3$, yellow, 446, 1.15 (0.0826). At concns. 0.02-0.004 *M* (1-2%), the complexes dissoc., absorption falls rapidly, and $\lambda_{max.}$ moves towards shorter wavelengths. These mol. compds. are all decompd. by H_2O. Analogous colored compds. are formed also by pyridine salts, e.g., 1-methylpyridine *p*-toluenesulfonate (IV) + $PhNMe_2$, light yellow; IV + Ph_3NH, intensely yellow; IV + *p*-$Me_2NC_6H_4NHAc$, brown-yellow; IV + *p*-$MeC_6H_4NH_2$, lemon-yellow. With phenols (hydroquinone, 1- and 2-naphthol), pyridine and quinoline salts give yellow products of various shades. The deep colors of the mol. compds. cannot be interpreted by dipole deformations or van der Waals forces but are instances of a particular type of complex resonance (I., *C.A.* 34, 7841[1]; I. and Belotsvetov, *C.A.* 36, 436[6]). The color phenomena of the mol. compds. described are no doubt related to the color of microquinonoid compds. and quinhydrone. N. Thon

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Intermolecular interactions and color. Absorption spectra of molecular compounds of quinolinium salts with aromatic amines. V. A. Izmail'skii and P. A. Solodkov (V. P. Potemkin Pedagog. Inst., Moscow). *Doklady Akad. Nauk S.S.S.R.* 79, 391-4(1950).—Substances with isolated chromophores may develop color under suitable conditions (*C.A.* 43, 407i); this may occur even in intermol. complexes. Spectra of 2-(*p*-dimethylaminostyryl)quinoline (I) and 1-ethyl-2-styrylquinolinium iodide (II) were examd. At 10^{-4} *M* the substances show absorption max. at 393 and 338 mμ, resp., with ε 37,700 and 24,700, resp. An equimolar mixt. of I and II at 10^{-4} *M* gives max. at 392 mμ (39,300), and at 10^{-3} *M* max. at 500 mμ (24,000). A 4:1 mixt. at 10^{-3} *M* gives a max. at 505 mμ (33,200), while a 1:4 mixt. at 10^{-3} *M* gives a max. at 505 mμ (43,300). I ethiodide in MeOH gives at 10^{-4} *M* a max. at 525 mμ (64,000), in H_2O it is 491 mμ (37,900), while its equimolar mixt. with I in MeOH gives at 10^{-4} *M* a max. at 523 mμ (73,800). The curves are reproduced. It is pointed out that a conjugated C-bond bridge is not an essential condition for color development. The ability to form colored complexes is greatest in I, and smaller in simpler mols. such as $PhNMe_2$ and Ph_2NH. The same general factors modify color in such systems as are operative in usual electrophile-electrodonor systems in conjugated chromophores. It is suggested that a new type of electronic bond, named exo-bond, may exist, which differs from the π-bond by absence of accompanying σ-bond. G. M. Kosolapoff

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Chem Abs V48
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Electronic Phenomena

Absorption spectra of molecular complexes of aromatic amines with quinolinium salts. Absorption spectra of molecular complex of 4-(*p*-dimethylaminostyryl)quinoline with 1-ethyl-2-styrylquinolinium iodide. V. A. Izmail'skii and P. A. Solodkov (V. P. Potemkin Pedagog. Inst., Moscow). *Doklady Akad. Nauk S.S.S.R.* 91, 1119-22(1953); cf. *C.A.* 43, 407*i*; 45, 4557*b*.—The mol. complex (I) of 2-(*p*-dimethylaminostyryl)quinoline with 2-styryl-1-ethylquinolinium iodide has abs. max. 505 mμ (ε 43,360). With the corresponding mμ styryl compd. of hemicyanine type (2-(*p*-dimethylaminostyryl)-1-ethylquinolinium iodide, m. 249°) the complex has an abs. max. 525 mμ (64,000). This confirms the earlier suggestion that an exomol. complex can form a chromophore system whose optical effects are close to those of a corresponding conjugated mol. system. The mol. complex of 4-(*p*-dimethylaminostyryl)quinoline (III) with 1-ethyl-2-styrylquinolinium iodide at 1:1 compn. has abs. max. 402 mμ, which agrees with that of III, with complete dissocn. of the complex, at concn. in MeOH of 10^{-5} mole/l.; at 10^{-4} concn. abs. max. is 530 mμ (ε 13,000) showing the complex formation and a bathochromic shift. Further increase of concn. does not affect the abs. max. position but increases the intensity to 30,800 at 10^{-3} concn. Thus the shift of the dimethylaminostyryl group from ortho to para position gave a bathochromic effect of 25 mμ, with a drop in ϵ_{max} from 43,360 to 30,800. This corresponds to the phenomena found in hemicyanines with styryl groups. The complex of III with 1-ethylquinolinium iodide does not form at 10^{-5} concn., and even at 10^{-3} concn. only a minute amt. of complexing occurs.

G. M. Kosolapoff

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