

KOVARIKOVA, V.; ZUNA, Vl.

Head injuries in children. Rozhl. chir. 40 no.11:702-706 N '61.

1. II chirurgická klinika v Plzni, přednosta doc. dr. J. Spínka.

(BRAIN wds & inj)

EXCERPTA MEDICA Sec.12 Vol.11/9 Ophthalmology Sept 57

1492. ZUNDE A.A. *Senile exfoliation of the anterior capsule of the lens (Russian text) VESTN.OFTAL. 1956, 6 (34-35)

This is a resumé of the monograph of Dr. Zunde of Oslo on the subject. The author found flakes on the pars plana of the ciliary body and loose flakes on the posterior surface of the lens capsule, along the axis from the posterior attachment of the zonule. Single flakes were in the angle of the anterior chamber. The exfoliated particles on the anterior surface of the capsule, at the equator and hyaloid membrane were probably formed in situ and are not carried to other places by the aqueous. Zunde disputes the name of 'glaucoma capsulare' given by Malling. He believes that glaucoma is primary and is independent of exfoliation of the capsule.

Sitchevska - New York, N. Y.

ZUNDE, B.Ja.; PLAVIN, I.K.; TRINKLER, M.F.; ZVERTE, A.K.

Kinetics of internal luminescent centers of alkali halide crystals
activated with thallium. Chekhosl fiz zhurnal 13 no.3:222-225 '63.

1. Institut fiziki Akademi nauk Letviyskoy SSR.

23599

S/081/61/000/008/003/017
B110/B202

24.3500 (1137, 1138, 1395)

AUTHORS: Shvarts, K. K., Vale, G. K., Zunde, B. Ya.

TITLE: Study of non-emitting transitions in the luminescence centers of alkali halide crystal phosphors

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 8, 1961, 32, abstract 85 234 (8B234) (Tr. In-ta fiz. i astron. AN EstSSR, 1960, no. 12, 77 - 110)

TEXT: The authors studied the non-emitting transitions in the luminescence centers of the NaCl, KCl, KBr-base phosphors which had been activated by means of the ions Tl^+ , Pb^{2+} , In^+ , Sn^{2+} . The possible mechanism of thermal transitions is discussed. The analysis of the experimental results shows that the thermal transitions take place according to the concepts of J. Frenkel (Phys. Rev., 1931, 37, 17; 1276) and N. Mott (Proc. Roy. Soc., 1938, 167, 384). [Abstracter's note: Complete translation.]

Card 1/1

L 16862-63 EWT(1)/BDS/SEC(b)-2 AFFTC/ASD/ESD-3/SSD H4-4

ACCESSION NR: AR3006312

S/0058/63/000/007/D086/D086

SOURCE: RZh. Fizika. Abs. 7D623

63

AUTHOR: Zande, B. Ya.; Trankler, M. F.; PLYHVINYL, L. K.

TITLE: On the kinetics of intracenter luminescence — 2

CITED SOURCE: Sb. Fiz. shchelochno-galozh. kristallov. Niga. 1962. 116-122. Diskus., 122

TOPIC TAGS: phosphor, alkali-halide crystal, luminescence attenuation time, luminescence quantum yield, intracenter luminescence

TRANSLATION: Using CsI-Tl and KI-In as examples, a comparison is made between experiment and the theoretical expressions for the luminescence attenuation time τ and the luminescence quantum yield B . τ was measured for different wavelengths within the limits of the broad non-elementary emission band of CsI-Tl, ascribed to the

Card 1/2

L 16862-63

ACCESSION NR: ARJ006312

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transition from levels corresponding to the levels 1P_1 and 3P_1 of the free ion T_1 . The results of the calculation, namely that γ remains constant for different wavelengths, are confirmed, thus indicating that the transition between the two vibrational levels 1P_1 and 3P_1 is independent of T_0 and the value of B_0 at a certain temperature to B_0 -- the quantum yield at T_0 -- are obtained. The agreement obtained between the theoretical and experimental values indicates that the probabilities of the radiative transitions of these activators are independent of the temperature.

DATE ACQ: 15Aug63

SUB CODE: PH

ENCL: 00

Card 2/2

ZUNDE, I.

Scientific research at botanical gardens of the Soviet Baltic Republics.
Vestis Latv ak no.8:145-148 '61.

ZUNDE, I.; MAURINS, A.

All-Union Conference on the Introduction of Plants, Vestis Latv
ak no.8:183-184 '60.

(KRAI 10:9)

(Plants)

ZUNDE, I.K.

Research work at the botanical gardens of the Baltic area.
Biul.Glav.bot.sada no.48:124-126 '63. (MIRA 17:5)

1. Botanicheskiy sad Akademii nauk Latvyskoy SSR, Riga.

ZUNDE, I., kand. sel'khoz. nauk, otv.red.; PETERSONS, E., kand.
sel'khoz. nauk, red.; YAKOVLEVA, N., kand. biol. nauk,
red.; GUTMANIS, K., kand. biol. nauk, red.; MELNADINA, A.,
kand. sel'khoz. nauk, red.

[Economically useful plants] Tautsaimnieciba derigis augi.
Riga, Latvijas PRR Zinatnu akad. izd-ba. Vol.2. 1963.
194 p. [In Latvian] (MIRA 17:6)

1. Akademiya nauk Latvyskoy SSR. Biologicheskiy institut
(for Petersons).

ZUNDE, I. K.

ZUNDE, I. K. -- "Local Meadows in the Latvian SSR and Their Economic-Biological Qualities." Riga, 1956. (Dissertation for the Degree of Candidate in Agriculture Sciences).

So.: Knizhnaya Litopis', No. 7, 1956.

ZUNDELVICH, M.I.; TIMOFEEV, S.S.

New technology in manufacturing hydrogenerators. Elektrosila no.14:
83-92 '56. (MIRA 12:12)
(Electric generators)

ZUNDELEVICH, Miron Iosifovich; REZNITSKIY, L.M., red.; ZHITNIKOVA, O.S.,
tekh. red.

[Technological processes in the manufacture of large hydrogenerators]
Tekhnologiya proizvodstva krupnykh gidrogeneratorov. Moskva, Gos.
energ. izd-vo, 1961. 284 p. (MIRA 14:6)
(Turbogenerators)

ZUNDELEVICH, M.I.

Special technological profile of copper in the rotor spools of hydrogenerators. Elektrosila no.14:95-98 '56.

(Electric generators)

(MIRA 12:12)

USSR/Medicine - Roentgenotherapy
Medicine - Blood Pressure, High Feb 49

"Roentgenotherapy of Arterial Hypertension," R. I. Zudelevich, S. A. Kolupayeva, Gen Sel Res Inst of Roentgenol and Radiol Imeni V. M. Molotov, 2 pp

"Sov Med" No 2

Sinus roentgenotherapy is not effective for arterial hypertension, but has a symptomatic effect. Therapeutic effect depends on proper selection of area for exposure in each case. General improvement in condition (disappearance of headache, dizziness, etc.) is a subjective indication of favorable results of

46/49770

USSR/Medicine - Roentgenotherapy (Contd) Feb 49

treatment. There is a symptomatic improvement in blood circulation. Maximal and minimal arterial pressure, average oscillometric pressure and index all decrease.

46/49770

ZUNDELEVICH, R. I., Cand Med Sci.

USSR/Medicine - Radiation Injuries; Leukopenia Nov/Dec 53

"Results of Treatment of Leukopenia," R. I. Zundele-
vich, Cand Med Sci, Roentgenother Div, Central Sci-
Res Inst of Roentgenol and Radiol im V. M. Molotov

Vest Rentgen i Radiol, No 6, pp 26-30

Figures are presented to show that tezan, admin-
istered either intramuscularly or orally, is effec-
tive in stimulating the depressed functions of the
organism in cases of leukopenia. Tezan produces
effects similar to those of vitamin B₁₂ (folic acid)

275132

and can be used in those cases where blood trans-
fusion produces no normalizing effect. Neither
tezan nor blood transfusion are effective, how-
ever, in some cases where depression of the func-
tions of the leukopoietic apparatus is due directly
to chemotherapy or radiotherapy. Tezan has been
synthesized by the All-Union Sci-Res Chemico-
Pharmaceut Inst in Ordzhonikidze (VikhFI)

ZUNDELEVICH, S.M., inzh.

Gravimetric work in Canada. Izv.vys.ucheb.nav.; geod.i aerof.
no.4:133-142 '59. (MIRA 12:10)

1. Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i
kartografii.

(Canada--Gravity)

3(4)

AUTHOR:

Zundeleovich, S. K., Engineer

SOV/154-59-4-17/17

TITLE:

Gravimetric Treatises in Canada (Gravimetricheskiye raboty v Kanade)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavodeny. Geodeziya i aerofotos"yemka, 1959, Nr 4, pp 133 - 142 (USSR)

ABSTRACT:

In the present paper some treatises of Canadian land surveyors and geophysicists in the field of gravimetrics are described. The main source for the present paper was a lecture (Ref 5) held in Toronto in September 1957 at the 11th Assembly of the International Union of Geodesy and Geophysics by the head of the Canadian national delegation, Professor M. I. S. Innes: "Gravity Measurements in Canada. January 1, 1954 to December 31, 1956". Publ. Domin. Observ. Ottawa, 1957, 19, Nr 1, 14 pp. The other works are: 1) Bancroft, A. M., Gravity Measurements in the Queen Elizabeth Islands of Arctic Canada. Trans. Amer. Geophys. Union, 1958, 39, Nr 4, 615 - 619. 2) Cook, A. H., Recent Developments in the Absolute Measurement of Gravity. Communication from the NPL, Teddington, England, 1951, 1-31. 3) Garland, G. D., Cook, A. H., A Determination of the Differences in Gravity Between the

Card 1/2

Gravimetric Treatises in America

SOV/154-59-4-17/17

National Physical Laboratory, Teddington, the Dominion Observatory, Ottawa, and the National Bureau of Standards, Washington.
4) Gilbert, R. L. G., A Dynamic Gravimeter of Novel Design. Proc. Phys. Soc. B. V., 1949, vol. 12, part 7, 445 - 454. 5) see above. 6) Innes, M. I. S., The Establishment of a Calibration Standard for Gravimeters in Eastern Canada and United States. Trans. Amer. Geophys. Union, 1958, 39, Nr 2, 195-207. 7) Lundberg, H., Airborne Gravity Surveys. Canad. Mining and Metallurg. Bull. 1957, 50, Nr 544 (465-473). 8) Tsuboi, Cr., Relation Between the Gravity Anomalies and the Corresponding Subterranean Mass Distribution, V. Bul. Earthquake Res. Inst. Tokyo Univ., v. 17, 384 - 400, 1939. There are 2 figures and 8 references.

ASSOCIATION: Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii (Moscow Institute for Geodetic, Aerial Survey, and Cartographic Engineers)

SUBMITTED: October 31, 1958

Card 2/2

ZUNDALOVICH, Z., inzhener.

Typical calculations for an installation for the regeneration of
monoethanolamine solution. Khol.tekh.31 no.1:22-25 Ja-Mr '54.
(MLRA 7:4)
(Monoethanolamine) (Refrigeration and refrigerating
machinery)

GUNDELIOVICH, M.

Question that needs a legislative solution.
Ap '59.

(Labor laws and legislation)

Sots. trud. 4 no.4:130
(MIRA 12:6)

GRES'-EDEL'MAN, B.Ye.; ROMASHKO, Yu.V.; PEDENKO, A.I.; KALUZHSKAYA, B.A.
ZUNDER, F.M.; KRAKOVSKAYA, B.S.; GOL'DENBERG, R.A.

Study of the causes of decreased immunity to diphtheria in
vaccinated subjects. Vop. okh. mat. i det. 6 no. 2:18-21
F '61. (MIRA 14:2)

1. Iz Khar'kovskogo nauchno-issledovatel'skogo instituta vaktsin
i syvorotok imeni I.I. Mechnikova (dir. - doktor biologicheskikh
nauk G.P. Cherkas).

(DIPHTHERIA) (IMMUNITY)

ZUNEC, Gordana, ing.

What is National Safety Council? Kem ind 9 no.12:3-128 D '60.

1. Clan Redakcionog odbora, "Sigurnost u pogonu!"

ZUNEC, Gordana, Ing.

Why in the United States there is less injuries at work. Kem ind 10
no.1:35 Ja '61.

ZUNIC, Danilo; PAVLOVIC, Milorad

Pathological physiology of the adrenals in tuberculous patients.
Tuberkuloza, Beogr. 12 no.1:10-22 '60.

1. Institut za tuberkulozu JNA (nacelnik: puk. prof. dr. J. Studic).

(TUBERCULOSIS PULMONARY pathol.)
(ADRENAL CORTEX pathol.)

EXCERPTA MEDICA Sec 15 Vol 13/3 Chest Dis. Mar 60

754. USE OF HYPOPHYSIO-SUPRARENAL HORMONES IN THE TREATMENT OF TB OF THE LUNG AND OF THE PLEURA - Primena hipofizarno-suprarenalnih hormona u lečenju tuberkuloze pluća i pleure. (Iskustva i postignuti rezultati u našem Institutu) - Zunić D. - TUBERKULOZA 1958, 10/2 (99-101)

The author pleads for combined chemo- and hormono-therapy in the treatment of pulmonary tb. Firstly treatment by aminox (PAS) with ACTH is employed. If it is not successful, pronison is administered and the result is immediate. Further doses of ACTH are administered. During hormonal therapy all sedatives and drugs which inhibit the function of pituitary and suprarenal gland must be avoided. The author recommends treatment with PAS and not with streptomycin in order to avoid sequelae. Hormonal therapy must be avoided in cases where resistance to chemo-therapeutics has been found.

Furlan - Golnik

ZUNIC, Danilo

Observations on the pathogenesis and therapy of some lung diseases. Tuberkuloza 17 no.3:252-267 My-Je '65.

1. Vojni Institut za tuberkulozu, Beograd (Naselnik: prof. dr. Mirko Tucakovic).

ZUNIC, Dragomir; JANJIC, Milan; RAJIN, Borislav

Transformation of tuberculous caverns in chemotherapy of residual foci. Tuberkuloza 16 no. 5:386-396 S-D '64

1. Specijalna bolnica za tuberkulozu pluca, Knez Selo, Nis (Upravnik: dr. Dragomir Zunic).

ZUNIC, D.

Yugoslavia (430)

History and Description - Serials

Italy after the municipal elections, p. 11.
REVIEW OF INTERNATIONAL AFFAIRS. (Federation
of Yugoslav Journalists) Beograd. (Fortnightly
journal on international problems. Published
also in Serbo-Croatian as Medunarodna Politika.)

East European Accessions List. Library of
Congress, Vol. 1, No. 13, November 1952.
UNCLASSIFIED "Card 1 of 2"

ZUNIC, D.

Yugoslavia (430)

and in French as Revue de la Politique Mondiale),
Vol. 3, No. 12, June 16, 1952.

East European Accessions List. Library of
Congress, Vol. 1, No. 13, November 1952.

UNCLASSIFIED

"Card 2 of 2"

ZUNIC, V.

TECHNOLOGY

Periodicals: SAOPSTENJA. TRANSACTIONS. No. 6, 1957.

ZUNIC, V. Spillway of the Kokin Brod Earth Dam. p. 1.

Monthly List of East European Accessions (EEAI) LC; Vol. 8, No. 3
March 1959 Unclass.

ZUNKO, E.

Efficiency of the electric-power installations. p. 309.

ENERGETIKA. Praha, Czechoslovakia. Vol. 9, No. 6, June 1959

Monthly list of East European Accessions. (EEAI) LC, Vol. 8, No. 10
Oct. 1959.
Uncl.

ZUNKO, E

Heating and air conditioning. p. 1051.

TECHNICKA PRACA. (Rada vedeckych technickych spolocnosti pri Slovenskej
akademii vied) Bratislava, Czechoslovakia, Vol. 11, no 12 Dec. 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 9, no.1, Jan, 1960

U_ncl.

ZUNKO, E.

Boiler for highest steam parameters for research purposes. Tech praca 15 no. 6: 449-451 Jo '63,

ZUNKO, Eugen, doc. inz.

Heating oils for low and middle capacity boilers. Tech praca
16 no. 7:527-531 J1 '64.

"Power consumption standards" by I. Bobak, T. Kana. Reviewed
by E. Zunko. Ibid. :551

ZUNKO, E.

Problems of thermal-electric power production in industrial enterprises. p. 619.

TECHNICKA PRACA. (Rada vedeckych technickych spolocnosti pri Slovenskej akademii vied) Bratislava, Czechoslovakia. Vol. 11, no. 8, Aug. 1959.

Monthly list of East European Accessions (EEAI), IC, Vol. 8, no. 10, Oct. 1959. Uncl.

ZUNNUNOV, A.A., aspirant

Resistance of cotton to wilt. Zashch. rast. ot vrsd. i bol. 8 no.
12:25-26 D '63. (MIRA 17:3)

1. Uzbekskiy institut zashchity rasteniy.

ZUNNUNOV, N.Z.

Theory of a reducing multiplier. Nauch. trudy TashGU no.209.
Mat. nauki no.23:16-20 '62. (MIRA 16:8)

83890

13,2520

S/166/60/000/004/003/008
C111/C222

AUTHOR: Zunmunov, N.Z.

TITLE: On the Theory of the Double Gyroscope Pendulum

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR. Seriya fiziko-
matematicheskikh nauk, 1960, No.4, pp.52-58.

TEXT: The paper is a continuation of the author's earlier publication (Ref.1) in which the domain of stability of the vertical situation of the double gyroscope pendulum was determined with the aid of Lyapunov's theorems. In the present paper the author investigates the notion of the axes of symmetry of the double gyroscope pendulum. It is stated that both axes of symmetry accomplish a uniform conic precession in the same direction around the vertical. The periods are determined. Conditions for the occurrence of the resonance are given. The investigation is carried out with the aid of several linearizing actions, whereby it becomes possible to represent the motion as a superposition of two main oscillations. The author mentions A.M.Lyapunov. There are 5 Soviet references.

ASSOCIATION: Tashkentskiy institut inzhenerov irrigatsii i mekhanizatsii sel'skogo khozyaystva (Tashkent Institute of Engineers of Irrigation and Mechanization of Agriculture)

SUBMITTED: January 15, 1960

Card 1/1

24 4100

34572

S/044/62/000/001/018/061
C111/C444

AUTHOR: Zunnunov, N. Z.

TITLE: On a method for the integration of the equations of motion of non-free systems with combination factors

PERIODICAL: Referativnyy zhurnal, Matematika, no. 1, 1962, 31-52, abstract 1B154. ("Tr. Tashkentsk. in-ta inzh. irrig. i mekhaniz. s. kh.", 1960, vyp 17, 3-11)

TEXT: Considered are Lagrange equations of holonomous conservative systems, where instead of the combination multipliers one introduces the impulsive multipliers of G. K. Suslov (Teoreticheskaya mekhanika [Theoretical mechanics], M.-L., 1944). By the usual method the system is brought to the Hamiltonian form. Some well-known examples are considered.

[Abstracter's note: Complete translation.]

Card 1/1

ZUNNUHOV, N.Z.

Common dynamic equations for bodies with variable masses. Trudy
SAGU no.37:35-41 '54 [i.e. '53] (MIRA 1013)
(Dynamics)

ZUNNUNOV, N. Z., CAND PHYS-MATH SCI, "ON THE THEORY OF
GYROSCOPIC SYSTEMS." TASHKENT, 1960. (MIN OF HIGHER AND
SEC SPEC ED UzSSR. SAMARKAND STATE UNIV IM A. NAVOI).
(KL, 2-61, 199).

ZUNUNOV, N.Z.

Theory of a double gyroscopic pendulum. Izv. AN Uz. SSR. Ser. fiz.-
mat.nauk no.4:52-57 '60. (MIRA 13:9)

1. Tashentskiy institut inzhenerov irrigatsii i mekhanizatsii
sel'skogo khozyaystva.
(Pendulum)

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 57 (USSR) SOV/124-58-10-11102

AUTHOR: Zunnunov, N. Z.

TITLE: On Equations of Motion of a Variable-mass Fluid (Ob uravneniyakh dvizheniya zhidkosti peremennoy massy)

PERIODICAL: Dokl. AN UzSSR, 1957, Nr 12, pp 9-11

ABSTRACT: The equations of motion of a variable-mass fluid are reduced to the Gromek-Lamb equation. It is pointed out that because the reactive forces depend upon the velocities and not upon the coordinates the assumption encountered in the literature regarding the existence of a force function of the reactive forces is incorrect.
M. I. Gurevich

Card 1/1

ZUMJUNOV, N.Z.

Motion equations of nonholonomic systems with linear constraints.
Trudy Inst. mat. i mekh. AN Uz. SSR no.13:121-128 '54. (MIRA 11:6)
(Differential equations)

ZUNUNOV, N.Z.

Redundant coordinate method used in the dynamics of variable
mass systems. Dokl. AN Uz. SSR no.2:11-15 '58. (MIRA 11:5)

1. Fiziko-tehnicheskiy institut AN UzSSR. Predstavleno akad.
AN UzSSR S.U. Umarovym.
(Mathematical physics) (Dynamics)

ZUMUNOV, N.Z.

Equations for the motion of fluids with variable mass. Dokl.
AN Uz. SSR no.12:9-11 '57. (MIRA 11:5)

1. Institut matematiki i mekhaniki im. V.I. Romanovskogo AN UzSSR
i Tashkentskiy institut inzhenerov irrigatsii i mekhanizatsii
sel'skogo khozyaystva. Predstavlene akad. AN UzSSR S.U. Umarovym.
(Fluid dynamics)

ZUNSHAYN, M.B.

Automatic line for the mechanical treatment of the body sections of
drilling bits. Mash. i nef. obor. no.1:21-24 '65. (MIRA 18:4)

1. Sverdlovskiy nauchno-issledovatel'skiy proyektno-tekhnologicheskii
institut mashinostroyeniya.

ROGOZKINA, M.V., kand.med.nauk; ZUNTOV, B.M.

Differential diagnosis of Besnier-Boeck-Schaumann disease.
Khirurgiia no.10:126-129 '64.

(MIRA 18:8)

1. Klinicheskaya bol'nitsa No.6 (glavnyy vrach G.I.Sidorov)
Moskovskogo gorodskogo otdela zdравookhraneniya, Moskva.

ROGZEKINA, K.V., kand. med. nauk; ZUMTOV, B.M.

Case of a bronchogenic cyst of the esophagus. Vestn. rent. i
rad. 29 no. 3:62-63 1964.

(MIRA 18:11)

GINEV, B.; ZUNZOV, Iv.

On functional changes in the cardiovascular system and neutral 17-ketosteroids during extensive surgical interventions. *Khirurgiia (Sofia)* 18 no.3:351-357 '65.

1. VMI, Plovdiv, Katedra po fakultetska khirurgiia (rukovoditel: prof. IA. Dobrev).

GINEV, Boiu; ZUNZOV, Ivan

Biochemical and electrophysiological changes in commotio cerebri. Khirurgia 15 no.9/10:856-858 '62.

1. Iz Katedrata po fakultetska khirurgia s urologia pri VMI [Vissh meditsinski institut] "I.P. Pavlov" - Plovdiv.
(BRAIN INJURY ACUTE)

ZUPAN, A.

The Institute of Oceanography and Fishing in Split. p. 15.

GEOLOSKI VJESNIK. (Zavod za geoloska istrazivanja Hrvatske i Hrvatsko geolosko drustvo) Zagreb, Yugoslavia. 1954 (published 1955)

Monthly list of East European Accessions (EFAI) 10, Vol. 8, no. 8, Aug. 1959

Uncl.

ZUPAN A.

The Institute for Oceanography and Fishing in Split; a general survey of major works achieved in physiography. p. 58.

GEOLOSKI VJESNIK. (Zavod za geoloska istrazivanja Hrvatske i Hrvatsko geolosko drustvo) Zagreb, Yugoslavia. 1954 (published 1955).

Monthly list of East European Accessions (EEAI) IC, Vol. 8, no. 8, Aug. 1959

Uncl.

ZUPAN, Anton

Contribution to the knowledge of the sea wave elements of the Adriatic Sea based on the observation data of the Yugoslav merchant marine ships during the period from 1953 to 1960. Hidrograf god '60 (publ. '61):69-95.

ZUPAN, G.

Reproduction of nautical charts in color. p. 231.

GEOLOSKI VJESNIK (Zavod za geoloska istrazivanja Hrvatske i Hrvatsko
geolosko) Zagreb, Yugoslavia. 1954 (published 1955).

Monthly list of East European Accessions (EEAI) IC, Vol. 8, no. 8, Aug. 1959

Uncl.

ZUPAN, G.

Reproduction of nautical charts and printing facilities. p. 56.

GEOLOSKI VJESNIK. (Zavod za geoloska istrazivanja Hrvatske i Hrvatsko geolosko drustvo) Zagreb, Yugoslavia. 1954 (published 1955).

Monthly list of East European Accessions (LEAI) LC, Vol. 8, no. 8, Aug. 1959

Uncl.

ZUPAN, Gojko

Chemical Abstracts
May 25, 1954
Dyes and Textile Chemistry

The synthesis of organic dyes. ~~Jose Ball, Zora Oubril-
 ne, Miroslav Jancic, Vladimir Krumpal, Ivan Holak,
 Mihailo Zaf, Zdravko Lapanj, and Vlasto Zupan (Inst. Ind.
 Research, Belgrade, New. Zbornik 1951, 123-38.~~

The synthesis of many dyes used in the textile and other industries is disclosed. Brief descriptions of the synthesis are given for the following dyes: (1) sulfate black; benzene is chlorinated to produce monochlorobenzene which is then nitrated to produce 1-chloro-2,4-dinitrobenzene. This is converted to 2,4-dinitrophenol by heating with NaOH. The 2,4-dinitrophenol is heated with a soln. of polysulfide and the product, upon oxidation in air, gives the sulfate black dye. This method has been used on a semi-industrial scale to produce 10-ton amts. of the dye. (2) Sulfate blue; chlorobenzene is nitrated to give a mixt. of *o*- and *p*-nitrochlorobenzene. The latter is treated with NaOH soln. in an autoclave at 6-7 atm. pressure to give nitrophenol. This is reduced in the presence of Fe in a salt (NaCl) soln. to give *p*-aminophenol which is condensed with 1-chloro-2,4-dinitrobenzene to give 2,4-dinitro-4'-hydroxydiphenylamine. Heating this product with a soln. of Na₂S in various concns. and under different conditions followed by oxidation gives 2 blue dyes of different identity. (3) Sulfate brown; naphthalene is nitrated to give mononitronaphthalene which is further nitrated to produce a mixt. of 1,6- and 1,8-dinitronaphthalene which is then heated in a rotating Fe drum with Na₂S and S to produce the dye. (4) Hydrot Olive dye; anthracene is heated in a rotating drum with S. The product is extil. with Na₂S, to produce the dye. (5) Chrome blue and chrome black for wool; a soln. of 2-nitrothol is treated with a soln. of

2/2 Igor Belic, etc. (3)

NaNO_2 in H_2SO_4 to produce 1-nitroso-2-naphthol, which upon the addn. of NaHSO_3 and H_2SO_4 gives 1-amino-2-naphthol-1-sulfonic acid. This is then subjected to the diazo reaction to form 1-diazo-2-naphthol-1-sulfonic acid. The Na salt of this acid is treated with a soln. of the Na salt of 3-naphthol. This produces a dark blue dye: (8) Nigrosine; this dye is prepd. by heating $\text{PhNH}_2 \cdot \text{HCl}$ with PhNO_2 and treating the reaction product with NaOH . The syntheses of azo dyes and of indanthrene dyes are also discussed.
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The synthesis of many dyes used in the textile and other industries is discussed. Brief descriptions of the synthesis are given for the following dyes: (1) sulfate black; benzene is chlorinated to produce monochlorobenzene which is then nitrated to produce 1-chloro-2,4-dinitrobenzene. This is converted to 2,4-dinitrophenol by heating with NaOH. The 2,4-dinitrophenol is heated with a soln. of polysulfide and the product, upon oxidation in air, gives the sulfate black dye. This method has been used on a semi-industrial scale to produce 10-ton amts. of the dye. (2) Sulfate blue; chlorobenzene is nitrated to give a mixt. of *o*- and *p*-nitrochlorobenzene. The latter is treated with NaOH soln. in an autoclave at 6-7 atm. pressure to give nitrophenol. This is reduced in the presence of Fe in a salt (NaCl) soln. to give *p*-aminophenol which is condensed with 1-chloro-2,4-dinitrobenzene to give 2,4-dinitro-4'-hydroxydiphenylamine. Heating this product with a soln. of Na₂S in various concns. and under different conditions followed by oxidation gives 2 blue dyes of different identity. (3) Sulfate brown; naphthalene is nitrated to give mononitronaphthalene which is further nitrated to produce a mixt. of 1,5- and 1,8-dinitronaphthalene which is then heated in a retaking Peckrum with Na₂S and S to produce the dye. (4) Hydron Olive dye; anthracene is heated in a retaking drum with S. The product is extd. with Na₂S to produce the dye. (5) Chrome blue and chrome black for wool; a soln. of 2-naphthol is treated with a soln. of

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NaNO_2 in H_2SO_4 to produce 1-nitroso-2-naphthol, which upon the addn. of NaHSO_3 and H_2SO_4 gives 1-amino-3-naphthol-4-sulfonic acid. This is then subjected to the diazo reaction to form 1-diazo-3-naphthol-4-sulfonic acid. The Na salt of this acid is treated with a soln. of the Ni salt of 2-naphthol. This produces a dark blue dye. (6) Nigrosine; this dye is prepd. by heating PhNH_2 , HCl with PhNO_2 and treating the reaction product with NaOH . The syntheses of azo dyes and of indanthrene dyes are also discussed. J. Rovtic

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