

PAVJAZSSZKIJ, G. L.

Pathological effect of noise. Magyar Sebesset 3 no.3:266-  
271; contd. 1950. (SML 20:1)

NAVNYKO, Z.P.

The production of mechanically capped steel. Izv. vys. ucheb.  
sav.; chern. met. 8 no.10:49-51 '65. (MIRA 18:9)

1. Dnepropetrovskiy metallurgicheskiy institut.

AKUTIN, G.K. [Akutin, G.K.]; GAYEVENKO, Yu.O. [Gaivenko, Yu.O.];  
 BYACHENKO, M.Ya.; ZHAROV, M.T.; IVANOV, S.K.; KARNYUSHIN,  
 L.B.; KLODYSKYI, I.I. [Klodyts'kyi, I.I.]; KOBUS, Ya.Y.  
 [Kobus, Yu.I.]; KOKLYU, V.Y. [Kosliuk, V.I.]; KORYTHNIKOV,  
 V.P.; KOROBKO, M.I.; KOSTOGRIZOV, V.S. [Kostehrynov, V.S.];  
 LADYIN, R.Ya. [Ladiev, R.Ia.]; MARTYNOV, G.F. [Martynuk,  
 G.F.]; MEL'NIK, P.M.; kand.tekhn.nauk; NAVOL'NEV, S.Ia.  
 [Navol'nev, S.Ia.]; SIN'KOV, V.M.; SPINU, G.O. [Spynu, G.O.];  
 SHOTKHET, L.A.; SHUMILOV, K.A.; KORSAK, Yu.Ye. [Korsak, Yu.IE.],  
 Fed.; LAGUTIN, I.A. [Lahutin, I.A.], tekhn.red.

[Automation in industry] Avtomatizatsiia v promyslovesti.  
 Kyiv, Derzh.vyd-vo tekhn.lit-ry URSR, 1960. 288 p.

(MIRA 14:12)

(Automation) (Industrial management)

GUBERNIYEV, M.A.; TORBOCHKINA, L.I.; NAVOL'NEVA, I.N.

Mechanism of glucose dissimilation in the erythromycin producer.  
Biokhimiia 28 no.3:388-394 My-Je '63. (MIRA 17:2)

1. All-Union Research Institute of Antibiotics, Moscow.

TORBOCHKINA, L.I.; DORMIDOSHINA, T.A.; NAVOL'NEVA, I.N.

Pathways of pyruvic acid formation in *Actinomyces erythreus* and *Act. antibioticus* producing macrolide antibiotics. *Biochimica* 30 no.2:388-394. Apr '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov Ministerstva zdravookhraneniya SSSR, Moskva.

1. NAVOLOTSKIY, A.
2. USSR (600)
4. Wheat
7. Tulun 70 spring wheat. Kolkh.proiz 12, no. 12, 1952

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

NAVOLOTSKIY, A.V., kand. biolog. nauk

Changing winter wheat into the spring variety during spring wheat breeding. Agrobiologiya no.6:834-848 M-D '64.

(MIRA 18:2)

1. Severo - Zapadnyy nauchno-issledovatel'skiy institut sel'skogo khozyaystva, Leningradskaya oblast'.

NAVOKI, C. 1947

(Budapest University)

"Vitamin E. Treatment of Scleroedema of Premature Infants."

Paed iatria Danubian, 1947, 2/5(266-271)  
Abst: Exc. Med. Vol. 11, No. 3, p. 383



W. A. G.  
(146)

Budapest University Vitamin E treatment of scleroedema of premature infants Paediatrica  
Danubiana 1947, 7/5 (266-271)

Vitamin E was administered to 136 premature infants, partly as a preventive measure  
against scleroedema, partly as treatment in cases where this disease was in evolution  
or had already developed. The results were good. A remarkable diuresis occurred  
in every case; sometimes the loss of weight seemed to involve danger. The serious  
prognosis of scleroedema in the premature infant has been entirely altered by  
vitamin E.

Veghelyi-Budapest (Sec. VIII)

So: Excerpta Medica, Vol. II, No.3, Sect. II, March 1949

NAVOTNY, ANTONIN

CZECHOSLOVAKIA / General Problems of Pathology. Allergy.

T-5

Abs Jour : Ref. Zh.-Biol., No 2, 1958, No 7594

Author : Navotny, Antonin,

Inst :

Title : Histamin Desensitization Therapy in the Allergic States in Gynecological Patients.

Orig Pub : Ceskosl. gynekol., 1957, 22-36, No 3, 197-201.

Abstract : After unsuccessful treatment with other drugs, small desensitizing doses of histamine were used on several patients with various gynecological diseases. Histamine did not cause any side effects; its favourable effects in many patients were evident.

Card : 1/1

GORYAYEV, Mikhail Ivanovich, akademik; PLIVA, Iozef. Prinimali uchastiye: TOLSTIKOV, G.A.; LISHTVANOV, L.N.; GEROUT, V. [Herait, V.]; KAYL, B. [Kajl, B.], doktor khim. nauk; NAVOTNY, L. [Novotna, L.], doktor khim. nauk; GLAZYRINA, D.M., red.; ALFEROVA, P.F., tekhn. red.

[Methods of studying essential oils] Metody issledovaniia efirnykh masel. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1962. 750 p. (MIRA 15:7)

1. Institut khimicheskikh nauk Akademii nauk Kazakhskoy SSR (for Goryayev, Tolstikov, Lishtvanova). 2. Chleny-korrespondenty Akademii nauk Chekhoslovakii (for Pliva, Gerout). 3. Institut organicheskoy i biologicheskoy khimii Chekhoslovatskoy Akademii nauk (for Pliva, Gerout, Kayl, Navotny).

(Essences and essential oils)

**NAVOYAN, Kh.A.**

Capacity of the bottom grill in a mountain dam. **Izv. AN Arm. SSR.**  
**Ser. FIZM tek 5 no. 4:59-68 '52. (MLBA 9:8)**

1. Arnyanskiy sel'skokhozyaystvennyy institut.  
(Dams)



NAVOYAN, Kh.A.

Specifying the value of the coefficient of discharge for short  
delivery pipe systems having submerged outlets. Izv. AN Arm.SSR, Ser.  
tekh. nauk 11 no. 3:45-52 '58. (MIRA 11:8)

1. Armyskiy sel'skokhozyaystvennyy institut.  
(Hydraulics)

ASTAF'YEV, A.S., kand. tekhn. nauk; NAVOYEV, V.S., inzh.

Welding of hardened low alloy steel. Svar. proizv. no.3:1-4 Mr '65.

(MIRA 18:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metal-  
lurgii imeni I.P.Bardina.

ASTANIN, I. I., inzh. nauk; NAVCHYEV, V.S., inzh.

Material of 18G2 and 18G2T low-alloy steel. Svar. proizv. no.3:  
18G2T. (MIRA 18:9)

.. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metal-  
lurgii imeni I.P.Bardina.



NAVOZOVA, Fekla Vasil'yevna; SUPRUNOV, D.G., red.; KOFANOV, P.F.,  
tekhn.red.

[The Krasnodar Territory] Krasnodarskii krai. Krasnodar,  
Krasnodarskoe knizhnoe izd-vo, 1955. 415 p.

(MIRA 15:5)

(Krasnodar Territory)

NAVRADI, Hugone

Preview of the 1965 fashion show. Bor cipo 14 no.5:146-148  
S '64

1. Fannonia Fur Factory, Budapest.

VEGVARI, Janosné, dr.; NAVRADY, Hugoné

Model designing in the fur industry. Bor cipo 12 no.2:55-57 Mr '62.

1. Pannonia Szormekikészítő és Konfekcionáló Vállalat

NAVRADY, Hugone

The Warsaw Fashion Show, 1963. Bor cipo 13 no.5:161-163  
S '63.

1. Pannonia Szormekikészítő és Szormekonfekció Vállalat.

NAVRADY, Hugone; BORNAI, Tibor

Raglan pattern prepared from printed furs. Bor cipe 13 no.4:  
129-131 JI '63.

1. Pannonia Szermekeszo es Konfekcionalo Vallalat.

NAVRADY, Hugone

Vienna Fall Fair, 1964. Bor cipo 15 no.1:30-31 Ja '64.

1. Pannonia Fur Manufacturing Enterprise.

NAVRAT, K.

Method and organization of a deratization campaign in a large city area. p. 517.

CESKOSLOVENSKA HYGIENA. Praha, Czechoslovakia. Vol. 4, no. 9, Oct. 1959.

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

Uncl.

POSTNIKOVA, Ye.N.; ZOLIN, G.A.; MARINA, L.V.; MAVRATEL', Z.A., SHEVE-  
LEVICH, L.M.; SHOR, M.S. (Moskva)

Effectiveness of streptomycin and PAS in treating pulmonar' tu-  
berculosis. Prob.tub.no.4:42-46 J1-Ag '55. (MLRA 8:10)

(TUBERCULOSIS, PULMONARY, ther.

PAS & streptomycin)

(SALICYLIC ACID, ther. use

tuberc.pulm. with streptomycin)

(STREPTOMYCIN, ther. use

tuberc.,pul.,with PAS)



MOROZOVA, L.N.; DOMUCHAYEVA, Z.Ye.; ZOLIN, G.A.; KULAKOVA, A.A.; NAVRATIL',  
Z.A.; POSTNIKOVA, Ye.N.; SHOR, M.S. (Moskva)

Effectiveness of prolonged combined antibacterial therapy of pulmonary tuberculosis. Klin.med. 37 no.12:75-82 D '59. (MIRA 13:4)

1. Iz IV glavnogo upravleniya pri ministerstve zdavookhraneniya  
SSSR (nauchnyy rukovoditel' - prof. A.Ye. Babukhin).  
(TUBERCULOSIS)

MOROZOVA, L.N.; DOKUCHAYEVA, Z.Ye.; ZOLIN, G.A.; KULAKOVA, A.A.;  
NAVRATEL', Z.A.; POSTNIKOVA, Ye.N. (Moskva)

Late results of antibacterial treatment of pulmonary  
tuberculosis. Klin. med. 40 no.12:32-36 D '62.

(MIRA 17:2)

1. Is 1-y i 2-y polikliniki IV Glavnogo upravleniya pri  
Ministerstve zdravookhraneniya SSSR (nauchnyy rukovoditel' -  
prof. A.Ye. Rabukhin).

NAVRATIL, Antonin

Peculiarities of the metal-friction material production technique. Zpravy pras metal Sumperk no. 4:21-26 '62

1. Vyzkumny ustav pro praskovou metalurgii, Sumperk.

MANUAL, E.

"Increasing the productivity of sows by massaging the udder.", p. 307,  
(SA SOCIALISTICKE ZEMEDELSTVI, Vol. 3, #3, Mar. 1953, Czechoslovakia)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of  
Congress, August 1953, Uncl.

MOES, A.; MAVRATIL, B.

Further experiences with unrestricted diets in acute glomerulonephritis in children. *Pediat. listy, Praha* 7 no.1:11-15 Jan-Feb 1952. (CLML 22:1)

1. Of the Pediatric Clinic in Olomouc.

NAVRAJIL, Bohuslav

SMID, Zdenek, MUDr; NAVRATIL, Bohuslav MUDr; BARTA, Karel, MUDr

Clinical and serological analysis of interstitial pneumocystic pneumonia in infants. Pediat. listy, Praha 9 no.5:257-258 Sept-Oct 54.

1. Z detske kliniky (prednosta MUDr A.Mores) a pathologicko-anatomickeho ustavu (prednosta doc. MUDr. C.Dvoracek) FU v Olomouci (PNEUMONIA, in infant and child interstitial plasma cell, Pneumocystic carinii, serol. diag.)

NAVRAIL, B., MUDr; SMID, Z., MUDr; BARTA, K., MUDr

Clinical and serological analysis of interstitial pneumocystic pneumonia in infant. Cas. lek. cesk. 94 no.1-2:7-8 7 Jan 55.

1. Z detske kliniky (prednosta MUDr A.Mores) a pathologickeo-anatomickeho ustavu (prednosta doc. MUDr C.Dvoracek) PU v Olomouci.

(PNEUMONIA, in infant and child

interstitial plasma cell Pneumocystic carinii,  
clin & serol. aspect)

(PROTOZOAN INFECTION, in infant and child

Pneumocystic carinii interstitial plasma cell pneumonia,  
clin. & serol. aspect)

CZECHOSLOVAKIA

NAVRATIL, B; SYKORA, S; KARASEK, O

Research Institute of Rubber and Plastics Technology,  
Gottwaldov - (for all)

Prague, Collection of Czechoslovak Chemical Communi-  
cations, No 2, February 1967, pp 517-525

"Laminar-flow heat transfer in the annular space of a  
mixed reactor."



NAVRATIL, Drahos, inz.

The PPBP-62 piles prestressed by initial tension. Inz  
stavby 12 no.11:511-513 N '64.

2/026/63/008/001/001/001  
D236/D308

AUTHOR: Navrátil, Emil, Engineer

TITLE: Calculation of the wave functions for several types of optical potential

PERIODICAL: Aplikace matematiky, v. 8, no. 1, 1963, 64-68

TEXT: The author considers the Schrödinger equation for the potential

$$U(r) = \frac{1}{2}\alpha r^2 + (\beta_1 + \beta_2 r^q)(\sigma, l);$$

where  $\alpha, \beta_1, \beta_2, q$  are constants,  $\frac{1}{2}\hbar\sigma$  is the spin operator of the particle, and  $\hbar l$  is the orbital moment operator. Rearranging the equation according to Blokhintsev, the solution is found, based on the work of Mayer and Jensen and presented in the form suggested by N.N. Lebedev. (Specialní funkce a jejich použití (Special functions and their uses) SNFL, Prague 1956). It is pointed out that certain relations depend only on the parameter  $M\alpha/\hbar^2$  whether  $q = 0, q = 2$ , so that there seems to be no specific advantage either way.

SUBMITTED: February 9, 1962

Can 1/1

NAVRATIL, Emil, inz.; ULEHLA, Ivan, prof., dr., CSc.

Calculation of some integrals containing Hermite polynomials.  
Aplikace mat 8 no.5:385-391 '63.

1. Katedra matematiky, Fakulta technicke a jaderne fyziky,  
Praha 1, Myslikova 7 (for Navratil).
2. Katedra teoreticke fyziky, Fakulta technicke a jaderne  
fyziky, Praha 1, Myslikova 7 (for Ulehla).

NAVRATIL, Emil

Diffused silicon junction diodes. Sdel tech 11 no.2:49-52  
F '63.

LODIN, Z.; NAVRATIL, E.; PODLANA, M.

A contribution to the mathematical analysis of the statistical distribution of the DNA content in cellular nuclei. Cesk. morf. 11 no.2:135-144 '63.

1. Physiological Institute, Czechosl. Acad. Sci., Prague and Faculty of Technical and Nuclear Physics, Prague.  
(DNA) (STATISTICS) (CELL NUCLEUS)

LODIN, Z.; NAVRATIL, E.; PODLAHA, M.

A study of the statistical distribution of the volumes of cellular nuclei and its relation to the statistical distribution of their projection areas. Cesk. morf. 11 no.2:145-151 '63.

1. Physiological Institute, Czechoslovak Academy of Sciences, Faculty of Technical and Nuclear Physics, Prague.

(CELL NUCLEUS) (DNA) (STATISTICS)

NAVRATIL, F.

"Central heating of building developments in Bratislava by the warmth of the Danube water." p. 182.

STAVBA. (Poverenictvo stavebnictva). Bratislava, Czechoslovakia, Vol. 6, No. 6, June 1959.

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

NAVRATIL, F.

New trends in apartment heating. p. 313.

STAVBA. (Poverenictvo stavebnictva) Bratislava, Czechoslovakia. Vol. 6, no. 10, Oct. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 12, Dec. 1959.

UNCL



NAVRATIL, Frantisek; HORSKY, J.

Problem of using waste heat; discussion. Energetika Cz 11  
no.1:52-53 Ja '61.

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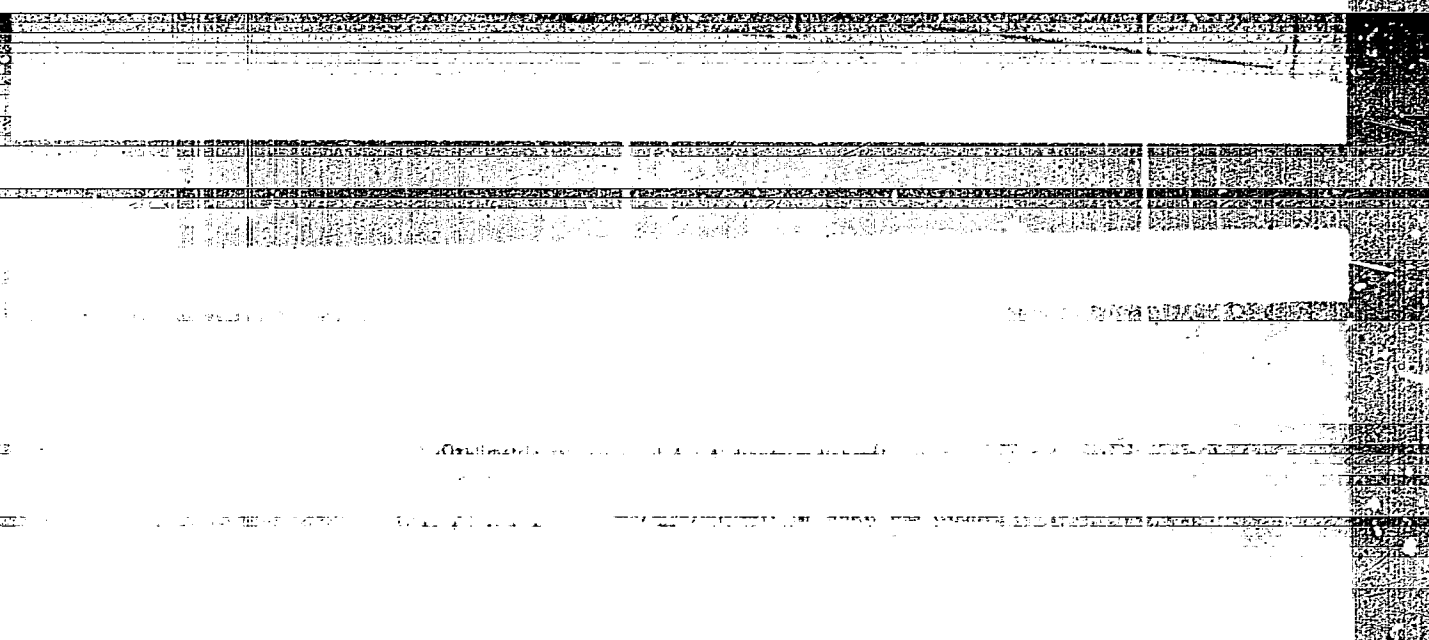
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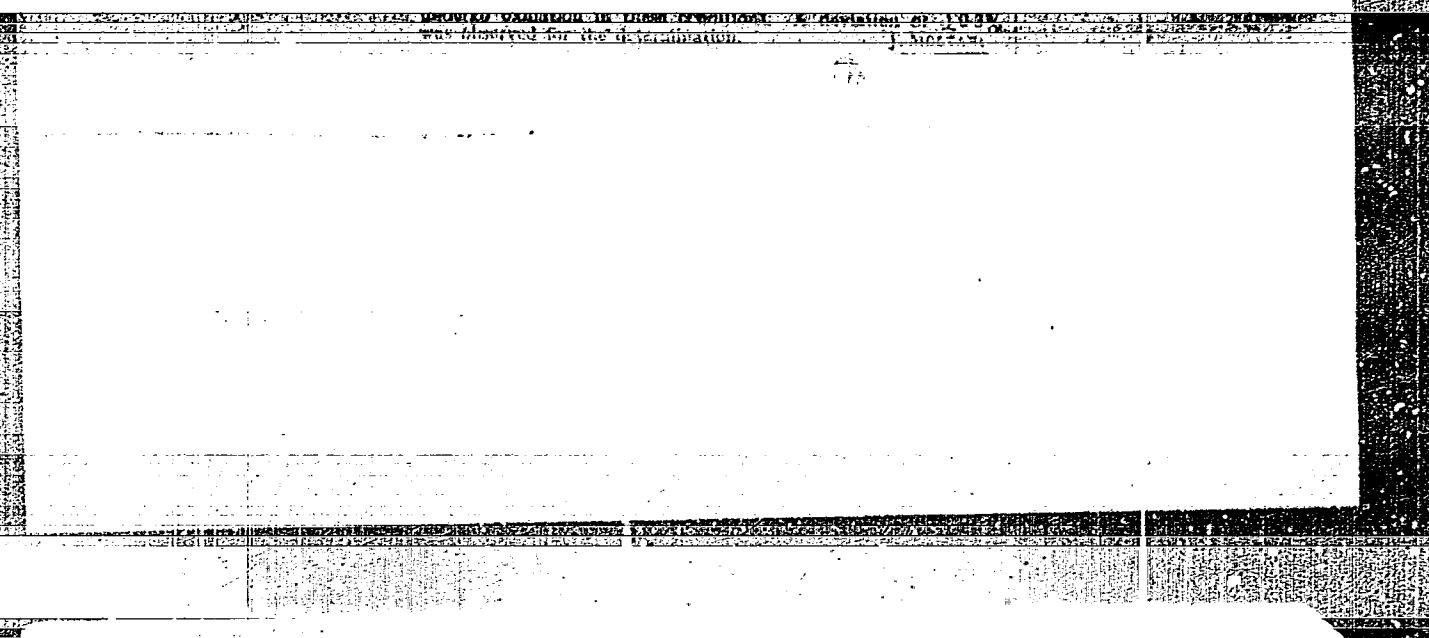


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NAVRAŤIL, FRANTIŠEK

CZECHOSLOVAKIA/Analytical Chemistry - Analysis of Organic Substances. E-3

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14244.

Author : Matrka Miroslav, Navratil Frantisek, Filipi Josef

Inst :

Title : Analytic Determination of Indigosol Dyestuffs

Orig Pub: Chem. promysl, 1957, 7, No 7, 343-347.

Abstract: For the determination of indigosol dyestuff a potentiometric method is proposed which is based on oxidation of the leuco-form of the dye with Ce-sulfate, K-bichromate or iron-ammonium alum. The method yields best results on determination of polycyclic dyes which are the derivatives of anthraquinone. When applied to dyestuffs of indigoïd type the method does not yield reliable results. Admixtures of stabilizers and dispersing agents found in the dyestuffs are identified by the method of paper chromatography.

Card : 1/1

NAV RATIL, F.

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Organic Substances.

E

Abs Jour : Ref Zhur - Khimiya, No 10, 1959, 34656

Author : Matrka, Miroslav; Navratil, Frantisek

Inst : Not given

Title : Titration of 2-Naphthol-Sulfonic Acids with Iodine

Orig Pub : Chem. promysl, 1958, 8, No 7, 363-364

Abstract : A method for the quantitative analysis of 2-naphthol-6-sulfonic acid, 2-naphthol-7-sulfonic acid and 2-naphthol-3,6-disulfonic acid, was described. Direct titration with a solution of iodine was employed. 0.005 grammoles of the substance were dissolved in 3 ml of a 2.5 N aqueous solution of  $\text{Na}_2\text{CO}_3$  and the diluted with water to 250 ml. To 25 ml of the solution thus obtained, 50 ml of the buffer solution at a pH of 7 were added. Potentiometric titration with a 0.1 N solution of  $\text{I}_2$  was

Card 1/2

CZECHOSLOVAKIA / Analytical Chemistry. Inorganic Analysis. E

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 81970

Author : Matrka, Miroslav; Navratil, Frantisek

Inst : Not given

Title : Photometric Determination of Nitrite with  
N,N'-Tetramethylbenzidino

Orig Pub : Chem. prumysl, 1959, 9, No 2, 75-77

Abstract : A new method for the photometric determination of  $\text{NO}_2^-$  ions was developed, based on the oxidation by  $\text{NO}_2^-$  ions of N,N'-tetramethylbenzidine to orange-colored diphenoquinone (absorption maximum at 475 mμ), containing the cation  $(\text{CH}_3)_2\text{N}^+ = \text{C}_6\text{H}_4 = \text{C}_6\text{H}_4 = \text{N}^+(\text{CH}_3)_2$ . To 1 ml 0.1% solution of N,N'-tetramethylbenzidine in 1 N. HCl, 9 ml 1 N. HCl and 0.5-3 ml  $\text{NaNO}_2$  solution to be analyzed

Card 1/2

( 0.01 g  $\text{NaNO}_2$  in 1 liter) are added, allowed to stand for 15 min., diluted with water to 100 ml, and the optical density of the solution is measured at 500 mμ (bluish-green light filter) after 9 hours using 5.5 cm cells. Beer's law is obeyed at  $\text{NO}_2^-$  concentrations 30 /ml. Oxidizing agents ( $\text{CrO}_4^{2-}$ ,  $\text{MnO}_4^-$ ,  $\text{Ce}^{+4}$ ) and reducing agents ( $\text{SO}_3^{2-}$ ,  $\text{S}_2\text{O}_4^{2-}$ ) interfere. -- N. Turkevich

Card 2/2

NAVRATIL, F; SMETANA, B.; MATRKA, M.

---

Gravimetric determination of anthraquinone-sulfonic acids by benzidine. p. 415.

CHEMICKY PRUMYSL. Praha, Czechoslovakia. Vol. 9, no. 8, Aug. 1959.

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

Uncl.



Z/009/60/000/03/005/028  
E112/E253

AUTHORS: Matrka, M., Navrátil, F., and Fišar, C

TITLE: Polarographic Study of Hydroxi-triphenyl-methane  
Dyestuffs ✓

PERIODICAL: Chemický průmysl, 1960, Nr 3, pp 129-132

ABSTRACT: The authors present a detailed contribution to polarographic investigations of hydroxi-triphenyl-methane dyestuffs. The literature mentions that the reduction on the dropping mercury electrode of trihydroxy-triphenyl-methane (aurine) and its substituents, proceeds in two distinct mono-electronic waves. The authors offer the following electronic explanation: in mesomeric structure I, the dyestuff loses its quinone configuration and acquires a positive charge on the central carbon atom. Simultaneously oxygen acquires a negative charge. During reduction an electron is taken up by the central carbon atom, producing a free radical of structure II. In the second phase an additional electron is taken up producing the unstable form III, having a lone pair of electrons with a negative charge. This is stabilised into the anion of the leuco-base by acquiring a proton. The

Card 1/4

Z/009/60/000/03/005/028  
E112/E253

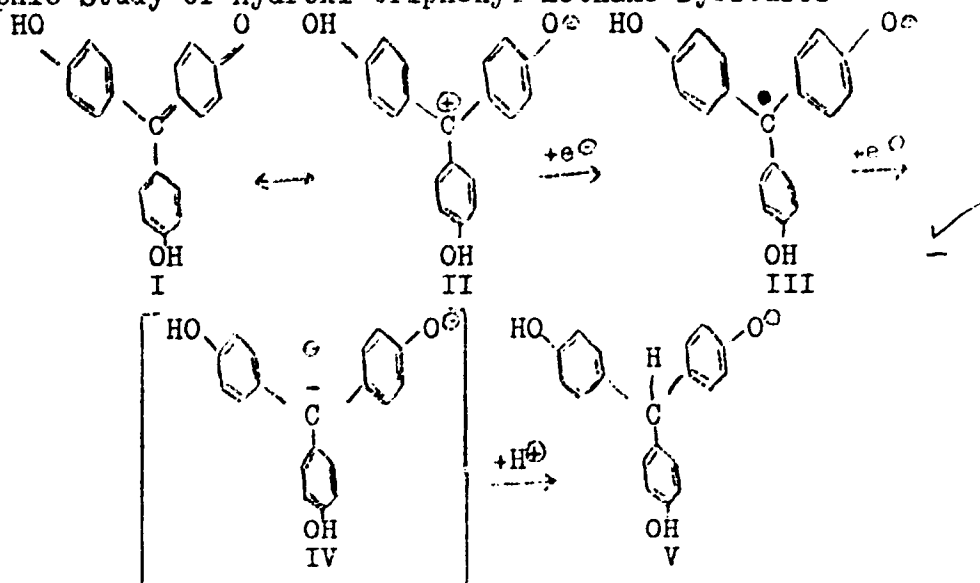
Polarographic Study of Hydroxi-triphenyl-methane Dyestuffs

two-step reduction is therefore explained by the existence of a free radicle. The authors have studied the polarographic behaviour under neutral, alkaline and acid conditions. The most characteristic two-step waves were obtained in a neutral medium whereas acidic conditions suppressed it. Under alkaline conditions a not very well developed one-step dielectronic wave was obtained. The authors have established that basic dyestuffs, such as malachite green, show analogous polarographic properties to aurine. Two independent mono-electronic waves were obtained under neutral conditions. The authors have also established that the peak of the polarographic waves depends to a high degree upon the quantity of ethanole used as a solvent. They conclude that a standard solution of aurine undergoes a structural change, which manifest itself by decrease of peak of wave. ✓

Card 2/4

Z/009/60/000/03/005/028  
E112/E253

Polarographic Study of Hydroxi-triphenyl-methane Dyestuffs



Card 3/4

Z/009/60/000/03/005/028  
E112/E253

Polarographic Study of Hydroxi-triphenyl-methane Dyestuffs

There are 5 figures, 2 tables and 8 references, 3 of which are Soviet, 2 English, 2 Czech and 1 Swedish.

ASSOCIATION: Výzkumný ústav organických syntéz, Pardubice-Rybitví ✓  
(Research Institute for Organic Syntheses, Pardubice-  
Rybitví)

SUBMITTED: July 13, 1959

Card 4/4

MATRKA, M.; NAVRATIL, F.; STERBA, V.; ARIENT, J.

Polegraphic determination of 2,2'-bis-pyrazoleanthrone in the presence of pyrazoleanthrone. Coll Cs Chem 26 no.7:1763-1767 J1 '61.

1. Organisch-technologisches Laboratorium I, Forschungsinstitut für organische Synthesen, Pardubice-Rybitvi.

(Anthrone) (Pyrazole)

MATRKA, Miroslav; VERISOVA, Eva; NAVRATIL, Frantisek

Detection and determination of nitrites by the method of color reaction with N,N-dimethylbenzidine. Chem listy 58 no.11:1329-1333 N '64.

1. Organic Technology Laboratory, Research Institute of Organic Syntheses, Pardubice-Rybitvi.

MATRKA, Miroslav; SAGNER, Zdenek; NAVRATIL, Frantisek; STERBA, Vojceslav

Oxidation of N,N,N',N' - tetramethyl naphthidine to the dinaphthoquinone-(4,4')-bis-dimethyl immonium salt. Chem prum 12 no.4:178-182 Ap '62.

1. Vyzkumny ustav organickych syntez, Pardubice-Rybitvi.

**MATRKA, Miroslav; NAVRATIL, Frantisek**

Polagraphic evaluation of acid anthraquinone dyes. Chem  
prum 12 no.9:498-499 S '62.

1. Vyzkumny ustav organickych syntez, Pardubice - Rybitvi.



MATRKA, Miroslav; NAVRATIL, Frantisek

Polarographic evaluation of metallized azo dyes. Chem prua 12 no.11:  
611-612 N '62.

1. Vyskumny ustav organickych syntez, Pardubice-Rybitvi.

NAVRATIL, F.; MATRKA, M.

Oxidimetric determination of Hlancophor R. Chem prum 13 no.8:  
415-416 Ag\*63.

1. Vyzkumny ustav organickych syntez, Pardubice-Rybitvi.

MATRKA, Miroslav; NAVRATIL, Frantisek

Study of diazotated N,N-dimethyl benzidine. Chem prum 14 no.2  
68-71 F\*64.

1. Vyzkumny ustav organickych syntez, Pardubice - Rybitvi (for  
Matrka). 2. Katedra technologie organickych latek, Vysoka skola  
chemicko-technologicka, Pardubice (for Navratil).

CHRUBA, Karel; NAVRATIL, Frantisek; SPEVAK, Antonin; HUBIL, Zdenek

Chromatographic identification and determination of nitroanthraquinone mixtures. Chem pram 15 no.2:95-99 F '65.

1. Research Institute of Organic Syntheses, Pardubice-Hybitvi.

NAVRATIL, F.

CZECHOSLOVAKIA

STYERA, V; ARSNT, J; NAVRATIL, F.

Research Institute for Organic Synthesis (Forschungsinstitut  
für organische Synthesen), Pardubice-Hybitz - (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 1,  
January 1968, pp 113-121

"Isidoneol epox. Part 14: Nitration of methyl derivatives of  
benzimidazole."

6 39119-66 EWP(t)/ETI IJP(c) AT/JD

ACC NR: AP6030362

SOURCE CODE: CZ/0042/66/000/002/0137/0142

AUTHOR: Autrata, R.; Navratil, F.; Prochazka, B.

ORG: none

TITLE: Conductivity induced by electron bombardment in polycrystalline layers of

CdS

SOURCE: Elektrotechnicky casopis, no. 2, 1966, 137-142

TOPIC TAGS: electron bombardment, cadmium sulfide

ABSTRACT: The article reports on experimental work conducted to determine the maximum current gain induced by monochromatic bombardment of cadmium sulfide polycrystalline layers with electrons with a density of  $10^{-8}$  -  $10^{-11}$  A/sq cm. The authors thank Engineer Safar, of Tesla-Blatna for providing the Cadmium sulfide samples. Orig. art. has: 8 figures. [JPRS: 36,644]

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 001 / SOV REF: 005  
OTH REF: 013

Card 1/1

NAVRATIL, J.; BEDNAR, O.; BEDNARIK, B.; OLEJNIK, O.; SUMBERA, J.; KANIA, R.

Surgical correction of congenital heart defects with open heart surgery. Cesk. pediat. 19 no.6:481-489 Je '64.

1. II. chirurgická klinika (prednosta: prof. dr. J.Navratil, DrSc.), I.detská klinika (prednosta: prof. dr. Z.Br necky), II. detská klinika (prednosta: prof. dr. M.Toman) lékařské fakulty UJEP [University J.E.Purkyně], Brno.

NAVRA'TIL, J.

Remarks on the surgical treatment of hypertension. Lek. listy 5:15-16,  
1 Aug. 50. p. 435-9

1. Of the Surgical Clinic, Masaryk University in Brno (Head—Prof.  
Josef Podlaha, K. D.).

CML 19, 5, Nov., 1950

NAVRA'TIL, J.: JANECEK, Z.

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136210

Surgical treatment of the so called cardiospasm. Rozhl. chir. 29 no. 8:  
317-324 1950. (CML 20:7)

1. Of the First Surgical Clinic of Masaryk University, Brno (Head—  
Prof. Josef Podlaha).



HAVRATIL, Jan. prof. Dr; BRAZDA, E., Dr; HRDLICA, Mil., Dr; SRAMEK, Ed.,  
Dr; VITEK, Ed., Dr; OLEJNÍK, O., Dr

Surgical treatment of mitral stenosis. Lek. listy, Brno 9 no.22:  
516-520 15 Nov 54.

1. z II. chirurgické kliniky M.U. v Brně. Prednosta prof. MUDr  
J.Kavratil a z II. vnitřní kliniky M.U. v Brně. Prednosta prof.  
MUDr J.Polcák.  
(MITRAL STENOSIS, surgery,)

NAVRATIL, Jan

Surgical therapy of congenital pulmonary stenosis. Scripta med.,  
Brno 27 no.5:128-130 1954.  
(PULMONARY STENOSIS  
congen., surg.)

**HAVRATIL, Jaroslav, MUDr.**

Contribution to the evaluation of the chartered vital capacity expiration of the lungs in diagnosis of lung diseases, with special reference to insufficiency of the right heart in medicolegal practice. Vnitr. lek., Brno 1 no.3:172-179 Mar 55.

1. Vnitřní oddělení Okr. sdružení střediska OUNZ v Uh. Brodě Uh. Brod, Stalingradská č. 5.

(LUNGS, diseases

diag., evaluation of chartered vital capacity expiration.)

(RESPIRATION, physiology

chartered vital capacity expiration, evaluation in diag. of lung dis. & cardiac insuf., value in medicolegal expert opinion.)

(PULMONARY HEART DISEASE, diagnosis

evaluation of chartered vital capacity expiration of lung, value in medicolegal expert opinion.)

(JURISPRUDENCE, MEDICAL

expert opinion in pulm. heart dis., evaluation of chartered vital capacity expiration of lung.)

NAVRATIL, J.

Streptomycin therapy of Meniere's disease. Bratisl. lek. listy  
35 no.10:618-622 1955.

1. Z Otorhinolaryngologicke kliniky PU v Olomouci, predn. prof.  
MUDr. Fr. Ledl.

(MENIERE'S DISEASE, therapy,  
streptomycin.)

(STREPTOMYCIN, therapeutic use,  
Meniere's dis.)

EXCERPTA MEDICA Sec.9 Vol.11/7 Surgery July 1957  
NAVRÁTIL J.

3684. NAVRÁTIL J., BRÁZDA L., HRDLICA M., OLEJNÍK O., ŠRAMEK Z. and  
VÍTEK Z. Chir. Klin. MU, Brno. 'Naše zkušenosti s chirurgickým léčením  
koarktace aorty. Personal experiences in the surgical treat-  
ment of coarctation of the aorta ROZHL. CHIR. 1956, 35/9 (554-  
561) Tables 2 illus. 2

The division of coarctation of the aorta into child and adult types is not satisfactory and is better abandoned. Diagnosis of coarctation of the aorta can be made from the clinical examination showing raised blood pressure in the upper half of the body and imperceptible pulse and unmeasurable blood pressure in its lower half. In a rare deep form of coarctation of the aorta a 14.5 cm. long stenotic section was replaced by arterial graft from the common and external iliac arteries. The patient died after 10 weeks as a result of haemorrhage from a ruptured aneurysm formed on the graft at the site of the stump of the internal iliac artery. Three coarctations of the aorta situated at the beginning of the thoracic aorta were successfully resected and the continuity of the aorta was re-established by end-to-end anastomosis. Two patients were operated upon in artificial hibernation and in 2 neurovegetative inhibition was employed.

NAVRATIL, J.; VASULIN, M.

The operation of cardiac defects in the open and empty heart, using hypothermia. Rev. Czech. M. 3 no.4:315-324 1957.

1. Second Clinic of Surgery, Masaryk University, Brno. Director:  
Professor J. Navratil.

(CARDIOVASCULAR DEFECTS, CONGENITAL, surg.  
blood & open heart surg. with hypothermia)

(HYPOTHERMIA  
in bloodless & open heart surg. of congen. cardiovasc.  
defects)

NAVRATIL, Jaroslav. MUDr.

Dispensary services in rheumatic fever and rheumatoid arthritis.  
Česk. zdravot. 5 no.6:353-356 June 57.

1. Kojický ústav narodního zdraví v Gottwaldově.  
(ARTHRITIS, RHEUMATOID, therapy,  
dispensary serv. (Cs))  
(RHEUMATIC FEVER, therapy,  
same)

EXCERPTA MEDICA Sec.11 Vol.10/11 Oto-Rhino-Laryngo Nov57  
*NAVRÁTIL J.*

2055. NAVRÁTIL J. Otolaryngol. Klin, PU v Olomouci. \*Jacksoná epilepsie - komplikace při anestezii před tonsilektomií. Jacksonian epilepsy as a complication during anaesthesia for tonsillectomy  
CSL. OTOLARYNG. 1957, 6/3 (151-153)

A case of jacksonian epilepsy is described as a complication during anaesthesia for tonsillectomy with 1% procaine with adrenaline. The anaesthetic probably escaped into the internal carotid artery and produced the fit.



NAVRAČIL, Jan; BRAZDA, Ludvik; HRDLICA, Miloslav; OLEJNIK, Oldrich; VITEK, Zdenek

Repair of defects of cardiac septum in open-heart surgery in hypothermia. Roshl. chir. 36 no.11:763-771 Nov 57.

1. II chirurgická klinika MU v Brně, prednosta prof. Jan Navratil.

(CARDIAC SEPTUM, abnorm.

surg., open-heart surg. in hypothermia (Cs))

(HYPOTHERMIA,

in open-heart surg. for abnorm. of cardiac septum (Cs))

EXCERPTA MEDICA Sec.18 Vol.1/10 Cardiovascular Oct 57  
NAVRÁTIL J.

2818. NAVRÁTIL J., BRÁZDA L., HRDLICA M., OLEJNÍK O., ŠRÁMEK Zb.  
and VÍTEK Zb. II. Chir. Klin. MU, Brno. Transaortální komisurotomie při stenose  
aortální chlopně *Transaortic commissurotomy in stenosis of the aortic valve* Čas. Lék. čes.  
1957, 96/6 (173—179) Illus. 1

Six patients were operated on for rheumatic aortic valvular stenosis. In 5 patients  
mitral stenosis was also present. Two patients died following the operation from  
cerebral embolism. Aortic commissurotomy was carried out transaortally by the  
method of Bailey. An artificial flap from the pericardium of a cadaver was sutured  
to the opening formed by the incision in the ascending aorta. A finger or valvulotome  
was introduced into the aorta by way of the flap as far as the stenosed valve, and the  
commissures were separated. Mitral commissurotomy was then carried out by the  
usual method.

(XVIII, 9)

NAVRAIL, Jan. Prof. Dr.

Use of hypothermia in surgery. Cas. lek. cesk. 96 no.36:Lek. veda  
zahr.;73-77 6 Sept 57.

1. II. Chirurgická klinika MU vBrne. Prednosta prof. MUDr Jan  
Navratil.

(HYPOTHERMIA,  
in heart surg., review (Cs))  
(HEART, surg.  
hypothermia, review (Cs))

NAV RATIL, J.

KRECIKOVA, Milada; MUSIL, Jan; NAVRATIL, Jan; OLEJNIK, Oldrich

Successful removal of a tumor from the exposed right auricle under hypothermia. Cesk. pediat. 13 no.5:401-407 5 June 58.

1. IV. detska klinika v Praze, prednosta prof. Dr. Fr. Blazek; II. chirurgicka klinika v Brne, prednosta prof. Dr. Jan Navratil. M. K., Praha 12, Kourimska ul.

(HEART, neoplasms

myxoma of auricle, successful excis. under hypothermia (Cs))

(HYPOTHERMIA,

in excis. of myxoma of heart (Cs))

(MYXOMA, surgery

excis. from heart under hypothermia (Cs))

NAVRATIL, Jan

Clinical experiences with cardiac operations in hypothermia. Cas. lek.  
cesk. 97 no.5:132-135 31 Jan 58.

1. II chirurgická klinika MU v Brně, přednosta prof. Jan Navratil.  
    (HEART, surg.  
      open heart surg. with hypothermia (Cz))  
    (HYPOTHERMIA  
      in open heart surg. (Cz))

NAVRATIL, J.

Bacteriological and histological studies in chronic otitis. Cesk.  
otolar. 8 no.4:194-197 Aug 59.

1. ORL klinika FU v Olomouci, prednosta prof MUDr. Fr. Ledl.  
(OTITIS MEDIA, microbiol.) (OTITIS MEDIA, pathol.)

NAVRATIL, Jan

Cardiac surgery with extra-corporeal circulation. Cas.lek.cesk.  
98 no.51/52:1601-1607 24 D '59.

1. II. chirurgicka klinika university v Brne, prednosta prof.dr.  
J. Navratil.

(HEART MECHANICAL)

NAVRAČIL, Jan

Experience with extracorporeal circulation gained in operations  
on cardiac defects. Rozhl. chir. 39 no.3:137-143 Mr '60

1. II. chirurgická klinika v Brně, přednosta prof. MUDr. Jan Navrátil.  
(HEART SURGERY)



NAVRATIL, Jan; OLEJNIK, Oldrich; KRCILKOVA, Milada; UHLIR, Jaromir

2 cases of successfully surgically treated defects of the  
aortopulmonary septum. Roshl. chir. 40 no.5:285-294 '61.

1. II. chirurgicka klinika PU v Brne, prednosta prof. MUDr.  
Jan Navratil. IV. detska klinika KU v Praze, prednosta prof.  
MUDr. F. Blazek.

(HEART SEPTUM abnorm.)

NAVRATIL, Jan; OLEJNIK, Oldrich; UHLIR, Jaremir

Complete repair of tetralogy of Fallot in the open heart. Rozhl.  
chir. 40 no.9:594-607 S '61.

1. II chirurgická klinika university J. Ev. Purkyně v Brně, přednosta  
prof. MUDr. Jan Navratil.

(TETRALOGY OF FALLOT surgery)

BARBORIK, M.; HANSLIAN, L.; NAVRATIL, J.; KRC, C.; Techn. spoluprace  
FLEICHINGEROVA, O.

Survey of health conditions among workers employed in the production  
of superphosphates. Prac. lek. 14 no.2:75-81 M '62.

1. I interni klinika UP v Olomouci, prednosta prof. MUDr. P. Lukl -  
ordinariat pro choroby s povolani Krajska hygienicko-epidemiologicka  
stanice Ostrava, pracoviste Olomouc, odbor hygieny prace, vedouci MUDr.  
P. Pachner Otorinolaryngologicka klinika UP v Olomouci, prednosta doc.  
MUDr. J. Chvojka Ustredni rtg ustav FN v Olomouci, prednosta MUDr.  
J. Doubravsky.

7

(PHOSPHATES toxicol) (OCCUPATIONAL DISEASES etiol)  
(DUST)

NEUMANN, L.; PODESVA, S.; NAVRATIL, J.

Production of the uranium(IV)-fluoride by means of reaction of uranium(IV)-oxide with dichlorodifluoromethane. Coll Cz Chem 27 no.2:477-482 F '62.

1. Institut für Technologie von Kernbrennstoffen und Radiochemie, Technische Hochschule für Chemie, Prag.

NAV RATIL, J.; ATANASOV, D.; BEDNARIK, B.; HRDLICA, M.; MUSIL, J.; OLEJNIK, O.;  
VASULIN, M.; ENENKL, V.; HLOUSEK, J.; KRATOCHVIL, Z.

Experiences with surgery of heart defects in deep hypothermia  
(Preliminary report). Cas. lek. cesk. 101 no.50:1475-1481 14 D '62.

1. II. chirurgicka klinika university JEvP v Brne, prednosta prof. dr.  
J. Navratil. Katedra termomechaniky VUT v Brne, prednosta dr. inz.  
V. Enenkl.

(HEART DEFECTS CONGENITAL)  
(HEART SURGERY)

(HYPOTHERMIA INDUCED)

CZECHOSLOVAKIA

Prof Jan NAVRATIL, MD, DrSc [Affiliation not stated]

"Seventieth Birthday of Prof Josef PODLARA, MD, DrSc."

Prague, Casopis Lekaru Ceskych, Vol 102, No 7, 15 Feb 63; pp 190-192.

Abstract: Biographical sketch of this surgeon with wide interests, mainly general abdominal thoracic surgery, teacher and former Dean of Medical School in Brno; 92 scientific articles, 29 reviews and minor publications, textbook of pediatric surgery. Sympathetic comments, biographical data, photograph of Dr PODLARA; bibliography of all his publications.

PLACAK, B.; NAVRATIL, J.

Early heart surgery in the Central Military Hospital. Rozh.  
chir. 42 no.118743-746 N'63.

1. Oddeleni pro chirurgii hrudni a vnitřní UVN v Praze;  
vedoucí: doc.dr. B.Placák; I. vnitřní oddeleni UVN v  
Praze,; vedoucí: doc.dr.V.Dufek.

\*

NAVRATIL, J.; RATHOVA, E.; ZEMAN, E.; FLACH, A.; DUFEK, V.

Importance of graphic demonstration of pulsation of the left ventricle in the esophagus (esophagoatrigran) in the diagnosis of mitral defect. Rozh. chir. 42 no.11:759-764 N°63.

1. I. vnitřní oddelení UVM v Praze, naceľník doc.dr. V.Dufek.

★



PLACAK, B.; ZMEŇA, B.; MAVRATIL, J.

Contribution to the surgical treatment of anomalous drainage  
of the pulmonary veins. Rozh.chir.42 no.11:794-799 N°63.

\*

NAVRATIL, Jaroslav. inz.

A combined circuit amplifier. Siatoproudy obzor 21 no.11:652-658  
(EEAI 10:2)

N '60.  
(Amplifiers)

26677

Z/014/61/000/008/002/007  
E192/E382

71431C

AUTHOR: Navrátil, Jaroslav, Engineer

TITLE: Calculation of the Terms of the Admittance Matrix  
of High-frequency Transistors

PERIODICAL: Sdělovací technika, 1961, No. 8, pp. 288 - 290

TEXT: An approximate method for the calculation of the components of the admittance matrix of high-frequency transistors is presented. This is based on the measurement of the transistor characteristics at two different frequencies,  $f_1$  and  $f_2$ .

The basic assumption in the derivation of the method is that any two "electrodes" of a transistor behave as a semiconductor diode, whose equivalent circuit is in the form shown in Fig. 1a. This circuit can be replaced by a parallel combination of a capacitance  $C(\omega)$  and conductance  $G(\omega)$ . These quantities are determined by:

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$$G(\omega) = \frac{R_p - R}{R_p^2} \cdot \frac{1 + \omega^2 C_d^2 R_p^2}{1 + \omega^2 C_d^2 R^2} \quad (1)$$

$$C(\omega) = \left( \frac{R_p - R}{R_p} \right)^2 \cdot \frac{C_d}{1 + \omega^2 C_d^2 R^2} \quad (2)$$

where  $R$  is the parallel combination of the resistances  $R_p$  and  $R_s$ . At given frequencies  $\omega_1$  and  $\omega_2$ , the capacitance  $C(\omega)$  has values  $C(\omega_1)$  and  $C(\omega_2)$ . The ratio of these capacitances is defined by:

$$P = \frac{C(\omega_1)}{C(\omega_2)} = \frac{1 + \omega_2^2 C_d^2 R^2}{1 + \omega_1^2 C_d^2 R^2} \quad (3)$$

where  $\omega = \omega_2/\omega_1$ . From the above, it is shown that at a normalised frequency  $x = \omega/\omega_1$ , the capacitance can be expressed by:

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Calculation of the Terms 26677 Z/014/61/000/008/002/007  
E192/E382

$$C(\omega) = C(\omega_1) \cdot \frac{m^2 - 1}{(m^2 - p) + x^2(p - 1)} \quad (5a)$$

Similarly, the ratio of the conductances at the two frequencies is given by:

$$q = \frac{G(\omega_1)}{G(\omega_2)} = p \frac{R(m^2 - p) + R_p(p - 1)}{R(m^2 - p) + m^2 R_p(p - 1)} \quad (7)$$

and the conductance at a normalised pressure  $x$  is determined by:

$$G(\omega) = \frac{G(\omega_1)}{q} \cdot \frac{(qm^2 - p) + x^2(p - q)}{(m^2 - p) + x^2(p - 1)} \quad (11)$$

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Calculation of the Terms ....

26677

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The admittance matrix of a transistor is generally in the form:

$$Y = \begin{Bmatrix} y_{11} & y_{12} \\ y_{21} & y_{22} \end{Bmatrix} = \begin{Bmatrix} g_{11} + j\omega C_{11} & -g_{12} - j\omega C_{12} \\ j\omega C_{21} & g_{22} + j\omega C_{22} \end{Bmatrix} \quad (12)$$

In order to determine the admittance components at any given frequency, it is necessary to know its values at the two frequencies  $\omega_1$  and  $\omega_2$ . However, in the case of the component  $y_{21}$ , it is necessary to consider the slope  $g_m$  of the transistor and the component  $y_{12}$  since this is the active element of the matrix. It is shown that the modulus of  $y_{21}$  is given by

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Calculation of the Terms .... 16677 Z/014/61/000/008/002/007  
E192/E382

$$|y_{21}| = 1 |y_{21}| \cdot \sqrt{\frac{m^2 - 1}{(m^2 - p_{11}) + x^2(p_{11} - 1)}} \quad (18)$$

and this phase is expressed by:

$$\varphi_m = -\arctg\left(x \cdot \sqrt{\frac{p_{11} - 1}{m^2 - p_{11}}}\right) \quad (19)$$

On the basis of the above equations it is possible to determine the maximum possible power amplification and the current-amplification factor  $\beta$  of the transistor at any given frequency. The above method of analysis was verified on the high-frequency transistor type OC170 and it was found

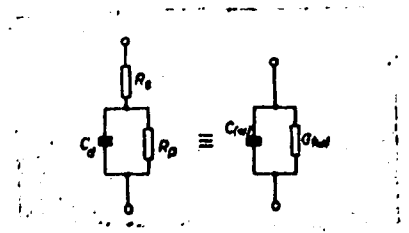
Card 5/6

Calculation of the Terms ....

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that at frequencies up to twice  $f_2$  the accuracy of the method was 20%.  
There are 3 figures.

Fig. 1:



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Z/039/62/023/010/001/001  
D236/D308

9.3230

AUTHORS: Navrátil, Jaroslav (Engineer) and Činčala, Jiří

TITLE: Multiple pass band filters matched on both sides

PERIODICAL: Slaboproudý obzor, no. 10, 1962, 562-567

TEXT: The authors study the properties of pass band filters consisting of  $(2n + 1)$  resonant circuits. A recurrence formula for the admittance matrix of the filter is derived and the properties of such filters are discussed. It is stated that the amplitude characteristic near the pass band is very steep and the bandwidth can be easily varied. Graphs useful in the design of filters comprising up to 9 resonance circuits are given. Practical realization of the filters and the results of their tests are indicated. ✓B

SUBMITTED: March 13, 1962

Card 1/1

NAVRATIL, Jaroslav, inz; VOLENIX, Vlastimil, inz.

Simple band-pass filter suppressing adjacent frequencies.  
Sdel tech 11 no.9:330-331 S '63.

**NAVRATIL, Josef, As. MUDr.**

~~"Nezbytné a nebezpečné?"~~

**Foreign bodies in the throat in children. Prakt. lek., Praha 34  
no.23:529-530 5 Dec 54.**

**1. Z Otorhinolaryngologické kliniky FV v Olomouci; přednosta prof.  
MUDr. Fr. Ledl**

**(FOREIGN BODIES**

**throat in child)**

**(THROAT, foreign bodies  
in child,)**

HAVRATIL, Josef, MUDr

Therapy of chronic otitis media with terramycin. Prakt. lek.,  
Praha, 35 no.3:66-67 5 Feb 55.

1. Z otorhinolaryngol. klin. FU v Olomouci. Prednosta prof. MUDr  
Fr.Ledl

(OXYTETRACYCLINE, ther. use  
otitis media)

(OTITIS MEDIA, therapy  
oxytetracycline)