SMOLINSKI, A.; KACZKOWSKI, Z.; SMIALKOWSKI, T.

Influence of the tuning and tracing rate on the recording fidelity of filter characteristics taken up by a Neuman type recording device. Archiw elektrotech 12 no. 4: 772-779 '63.

1. Zaklad Magnetykow, Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Warszawa, i Katedra Magnetykow i Dielektrykow, Politechnika, Warszawa.

SMOLINSKI, Adam

Inaugural lecture. Zesz probl nauki Pol 25:15-22 '63.

1. Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

LACHOWICZ, Henryk; SMOLINSKI, Adam

Thin magnetic films and their use in computers. Zesz probl nauki Pol 25:194-215 '63.

1. Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

L 30708-66 EWP(t)/ETI IJP(c) JD/HM

ACC NR: AP5028967 SOURCE CODE: PO/0053/65/000/008/0365/0371

AUTHOR: Krzycki, Zenon; Smolinski, Adam

ORG: none

TITLE: Recent development in research on microwave ferrite components in Poland

SOURCE: Przeglad elektroniki, no. 8, 1965, 365-371

TOPIC TAGS: microwave component, ferrite, resonance line, ferromagnetic resonance, measurement, nonlinear effect

ABSTRACT: This paper concerns the development of microwave ferrite components in Poland since 1954. The research on nickel-copper-cobalt and nickel-copper-zinc ferrites with narrow resonance lines carried out by Dr. R. Wadas is mentioned, and the measurement of ferromagnetic resonance by the Zenon Krzycki method is described. The characteristics of 17 microwave ferrite components designed and manufactured in Poland are given. The assumption is made that future research in Poland will concentrate on developing millimeter band components in the microwave range, on improving the assortment of components, and on utilizing the nonlinear phenomena in ferrites. This paper was read at the Ninth Yugoslav Conference ETAN, held in Bled in Nov. 12-14, 1964. Orig. art. has: 7 fig., 1 table, and 2 formulas.

SUB CODE: 17,20 / SUBM DATE: none/ ORIG REF: 000 / OTH REF: 038

UDC: 621.318:621.396.96

Card 1/1 LS

L 36163-66
ACC NR: AP6008689 SOURCE CODE: PO/0095/66/014/001/0071/0080

AUTHOR: Smolinski, A. K.

ORG: Department of Electronic Circuits, Technical University, Warsaw (Katedra Ukladow Elektronicznych, Politechnika); Department of Magnetics, Institute of Fundamental Technical Problems, Polish Academy of Sciences (Zaklad Magnetykow, Instytut Podstawowych Problemow Techniki, PAN)

TITLE: High-frequency pulse decay in synchronous single-circuit amplifiers

SOURCE: Polska akademia nauk. Bulletin. Serie des sciences techniques, v. 14, no. 1, 1966, 71-80

TOPIC TAGS: high frequency amplifier, resonant amplifier, pulse amplifier, amplifier stage

ABSTRACT: The paper presents the calculation of values for the pulse envelope, phase angle, and instantaneous frequency of response to a high-frequency decay signal by a single negative overshoot. The signal is applied at the starting point of the multistage, modulated, synchronous, resonance amplifier with one circuit for each stage. By applying high-performance resonance-tube amplifiers, the approximation method of calculation can be used to investigate the effect of the poles of signal function and the adjoining functions of the system. This method assures precision

Card 1/2

GLEBOCKI, R.; SMOLINSKI, J.

Spectrophotometric studies on the New Hercules 1963. Postepy astronom 12 no.1:15 '64.

Atlases of spectra of two fast and two slow stars in large dispersion. Ibid.:16

GLEBOCKI, R.; SMOLINSKI, J.; WOSCZYK, A.

The continuous spectrum of Nova Herculis 1963. Acta astronom 14 no.4:301-310 '64.

1. Laboratory of Astrophysics of the Astronomical Institute, Torun, of the Polish Academy of Sciences. Submitted June 1964.

GIEBOCKI, R.; SMOLINSKI, J.

Observational conditions in Piwnice in 1963. Postepy astronom 12 no.4:261-263 O-D '64.

PUBLIC HEALTH

RUMANIA 616-002.951.21-084

LUPASCU, Gh., Prof, TINTAREANU, Justina, Dr, SOLOMON, Paula, Biologist, SMOLINSKI, M., Dr, POPA, I., Dr, and COSTIN, Maria. Work performed at the "Dr I. Cantacuzino" Institute of Microbiology, Parasitology and Epidemiology (Institutul de Microbiologie, Parazitologie si Epidemiologie "Dr I. Canatcuzino"), Bucharest.

"Aspects Concerning the Organization of a Campaign Against Teniasis (Taenia solium)."

Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 11, No 3, May-Jun 66, pp 257-263.

Abstract [Authors' English summary modified]: The authors describe a campaign against teniasis in a town where several cases of Taenia solium had been identified. The campaign involved simultaneous application of three approaches: effective treatment of carriers; determination of the extent of infestation; sanitary precautions and sanitary-hygienic education of the entire population.

Includes 4 tables and 6 references, of which one Rumanian and 5 Western.-- Manuscript submitted 2 August 1965.

1/1

space between the tubes in 5 from the pockets of the condenser 1, this N_2 boiling at a pressure of 0.5 at. in 5, the pressure maintained by the vacuum pump 7: owing to the reduced boiling point of the N_2, a higher degree of condensation of N_2 is reached in the tubes of 5, and the uncondensed gas is enriched with Ne and He. A small amount of liquid N_2 is fed into 6 through the line 8; the heat delivered from the N_2 assists in evaporating the Ne and He from the liquid N_2 in the vat of the column 4. From this vat the liquid N_2 flows through the line 9 spraying the upper column of the apparatus 2. The mixture of neon and helium, also containing N_2, is taken off through the line 10 for further processing. The indicators 11 and 12 maintain the level of liquid in 4, and are used for controlling the operation of 4. With the proposed method, extraction of Ne and He from air is high. [Abstracter's note: Complete translation.] There is 1 figure.

CIUCA, M., prof., akad.; LUPASCU, Gh., prof.; DUPORT, M., d-r; AGAVRILOAIEI, A., d-r; SMOLINSKI, M., d-r

Problems in malaria in the Rumanian People's Republic. Med. paraz. i paraz. bol. no.2:160-162 '62. (MIRA 15:7)

1. Chlen-korrespondent Rumynskoy akademii (for Lupascu).

(RUMANIA--MALARIA--PREVENTION)

LUPASCU, Gh., prof.; BOSSIE-AGAVRILOAEI, Aspasia, dr.; SMOLINSKI, M., dr.; NEGULICI-BALLIF, Eugenia, dr.; CONSTANTINESCU, Piereta, dr.; ISFAN, Tr., biolog.; PETREA, D., dr.; MAZILIU, V., dr.; ROMAN, V., dr.

The problem of quartan malaria and malaria eradication programs. Microbiologia 8 no.2:99-112 Mr-Ap '63.

1. Lucrare efectuata in Institutul "Dr.I.Cantacuzino" Laboratorul de malarie si protozoare patogene si Central de impaludare terapeutica "Berceni", Spitalul "Gh.Marinescu", in colaborare cu Statiile de malarie.

CA

10

New physiologically active ethers of colamine. J. Ilg and S. Smoliński (Jagiellonian Univ., Kraków, Poland). *Roczniki Chem.* **23**, 418–25(1949)(English summary). Mol. systems contg. ethyleneamine groups, known to possess antihistaminic properties, were studied. The following new *amino ethers* were synthesized: *benzyl 2-benzylaminoethyl* (I), b_9 195–7°, *benzyl 2-(benzylmethylamino)ethyl* (II), b_{11} 113°, *benzyl 2-dimethylaminoethyl* (III), b_8 153.5°, *benzyl 2-diethylaminoethyl* (IV), b_{11} 135.7°, *benzhydryl 2-aminoethyl* (V), b_{11} 235.13°, and *benzhydryl 2-diethylaminoethyl* (VI), b_{11} 180.2°. They were prepd. by condensation of Na derivs. of colamine or its *N*-alkyl derivs. with Ph_3CH or Ph_2CHCl. All these compds. are oily, light yellow liquids, and have an aromatic odor. They were identified by their picrolonates, all crystg. from alc. as yellow prisms, melting as follows: I, 152.5–3.5°; II, 139–40.5°; III, 170–1°; IV, 113.5–14.5°; V, 208.9° (decompn.); VI, 141.5–2.5°. In clinical value III is equal to benadryl. E. A. A.

CA

10

Modified method of preparation of phthalimidoethylene bromide. J. Ilk and S. Smolinski (Jagiellonian Univ., Krakow, Poland). *Roczniki Chem.* **23**, 126-30 (1949) (English summary). N-(2-bromoethyl)phthalimide (I) was synthesized from $(CH_2Br)_2$ and phthalimide in the presence of K_2CO_3 in a specially devised app. by heating for 5 hrs. to 175-85°. Two new additive compds. of I with pyridine and quinoline are described: *1-(2-phthalimidoethyl)-pyridinium bromide*, colorless prisms from EtOH, $C_{15}H_{13}O_2N_2Br$, m. 233°, and *1-(2-phthalimidoethyl)-2-hydroxy-1,2-dihydroquinoline*, brown prisms from EtOH, m. 210°.

Edward A. Ackermann

SMOLENSKI, S.

New physiologically active ethers of colamine. J. Illg and S. Smolinski (*Rocz. Chem.*, 1950, 33, 418—425).—The antihistamine activity as tested clinically in cases of urticaria, of some colamine [2-aminoethyl] ethers is: Benadryl = 1-dimethylamino- > 1-methylbenzylamino- > 1-dimethylamino-2-benzyloxyethane. 1-Benzylamino-2-benzyloxyethane is inactive. R. TRUSCOTT.

Smoliński, S.

On a new group of antihistamine agents: morpholides of *N*-derivatives of glycine. Stefan Smoliński (Univ. Kraków, Poland). *Roczniki Chem.* 30, 1111–19(1956)(English summary).—The following new antihistamine substances were obtained from *N*-(chloroacetyl)morpholine and concd. NH_3 solns. or suitable solns. of primary and secondary amines. *N*-morpholineacetic acid morpholide (I), *N,N*-dimethylglycine morpholide (II), *N,N*-diethylglycine morpholide (III), glycine morpholide-HCl (IV), nitrilotriacetic acid trimorpholide (V), *N*-methylglycine morpholide (VI), and (methylimino)diacetic acid dimorpholide-HCl (VII) were prepd. M.p. (or b.p./mm.) of I-VII and m.p. of the picrate, resp.: I, 75°, 149°; II, 119°/5, 121°; III, 136°/6, 161°; IV, 241° (decompn.), 220° (decompn.); V, 156°, 220.5° (decompn.); VI, 155°/14, 161°; VII, 187°/8 (decompn.), 224° (decompn.). A. Kreglewski

SMOLINSKI, Stefan

A "cross" effect of biologically active identical groups. Mono- and diethers of pentaerythritol. Rocz chemii 34 no.3/4:849-856 '60.
(EEAI 10:3)

1. Katedra Cehmii Organicznej Uniwersytetu Jagiellonskiego, Krakow
(Ethers) (Pentaerythritol)

SMOLINSKI, Stefan

A certain reaction of chroman ring closure. Rocz chemii 34 no.3/4: 857-861 '60. (EEAI 10:3)

1. Katedra Chemii Organicznej Uniwersytetu Jadiellonskiego, Krakow (Chroman)

SMOLINSKI, Stanislaw, (Katowice)

The problem of cysticercosis in cattle and cattle tapeworm infection among people. Wiadomosci parazyt. 7 no.2:321-323 '61.

(CYSTICERCOSIS transm) (CATTLE parasitol)

SMOLINSKI, Stanislaw
SURNAME, Given Names

Country: Poland

Academic Degrees: [not given]

Affiliation: [not given]

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 9, September 1961, pp 560-561.

Data: "Protection of Animals."

GPO 981643

L 38406-66

ACC NR: AP6018135 SOURCE CODE: PO/0095/65/013/009/0141/0150

AUTHOR: Smolinski, A. K.-- Smolin'skiy, A. K.

24 B

ORG: Department of Electronic Circuits, Technical University, Warsaw (Katedra Ukladow elektronicznych, Politechnika); Department of Magnetics, Institute of Fundamental Technical Problems, Polish Academy of Sciences (Zaklad magnetykow, instytut podstawowych problemow techniki, PAN)

TITLE: High-frequency pulse rise in synchronous single-circuit amplifiers

SOURCE: Polska akademia nauk. Bulletin. Serie des sciences techniques, v. 13, no. 9, 1965, 141-150

TOPIC TAGS: amplifier, ~~synchronous single circuit~~ current amplifier, electronic amplifier, ~~envelope, phase angle, instantaneous response frequency~~ high frequency, circuit

ABSTRACT: The author analyzes the computation of the envelope, phase angle, and instantaneous frequency of response to the high-frequency signal modulated by a single hop fed into the input of a synchronous single-circuit amplifier. The high Q-factor circuit amplifiers used make it possible to follow the approximate method of computation, which

Card 1/2

L 38406-66

ACC NR: AP6018135

takes into account only the effect of the poles of signal functions and the functions of neighboring poles. The accuracy of this method is estimated to be one-fourth of one percent. The original article also includes formulas for calculating the values as sums of finite number fo components. Numerical computations were made with a computer, providing runs for one to ten cascades, for detuning of the frequency of resonance circuits from the signal frequency, reaching the width of resonance curves at half-power points. The figures in the original article show the results of calculations as a function of the number of cascades and the changes in detuning, and also typical features of curves such as the envelope buildup time, its overshots, and its steady-state level. In conclusion, the author gratefully acknowledges the assistance of Mr. A. Sadowski and Mr. M. Bukowski in making the computations available. Orig. art. has: 7 figures and 32 formulas. [GC]

SUB CODE: 09/ SUBM DATE: 18Aug65/ ORIG REF: 003/ SOV REF: 002/ OTH REF: 002

Card 2/2

SMOLINSKIY, K.I. (Leningrad, ul. Dzerzhinskogo, d.1/8, kv.33)

A portable device for nitrous oxide anesthesia for use in first aid. Vest.khir. 79 no.12:112-113 D '57. (MIRA 11:1)

1. Iz Leningradskoy stantsii skoroy pomoshchi (glavnyy vrach - V.N.Golyakov) i Nauchno-issledovatel'skogo instituta skoroy pomoshchi im. Yu.Yu.Dzhanilidze (dir. - D.N.Fedorov, nauchnyy rukoviditel' - prof. P.N.Napalkov).
(ANESTHESIA, INHALATION, appar. and instruments
portable device for nitrous ocide anesth.)
(FIRST AID,
same)

SMOLINSKIY, K.I.

Thromboembolism; according to materials from the Leningrad First Aid Station. Sov. med. 22 no.1:65-69 Ja '58. (MIRA 11:4)

1. Iz Leningradskoy stantsii skoroy meditsinskoy pomoshchi (glavnyy vrach V.N.Golyakov)
(THROMBOEMBOLISM, ther.
anticoagulants & surg. (Rus))

SMOLINSKIY, K.I. (Leningrad, ul. Dzerzhinskogo, d.1/8, kv. 33)

Nitrous oxide anesthesia by first aid personnel [with summary in English]. Vest. khir. 80 no.2:94-98 F '58. (MIRA 11:3)

1. Iz Leningradskoy stantsii skoroy meditsinskoy pomoshchi (gl. vrach-V.N.Golyakov)

(NITROUS OXIDE, anesth. & analgesia in acute dis., indic. (Rus)

SMOLINSKIY, K.I.

Nitrous oxide with oxygen during attacks of bronchial asthma. Sov. med. 24 no. 10:114-117 O '60. (MIRA 13:12)

1. Iz Leningradskoy stantsii skoroy pomoshchi (glavnyy vrach V.N. Golyakov).
(ASTHMA) (NITROUS OXIDE)

SMOLINSKIY, K. I. (Leningrad, ul. Dzerzhinskogo, d. 1/8, kv. 33)

Effect of nitrous oxide anesthesia on the course of experimental shock. Vest. khir. no.2:105-111 '62. (MIRA 15:2)

1. Iz Leningradskoy stantsii skoroy pomoshchi (gl. vrach - V. N. Golyakov) i patofiziologicheskoy laboratorii (zav. - prof. A. M. Dubinskiy) Nauchno-issledovatel'skogo instituta skoroy pomoshchi im. Yu. Yu. Dzhanelidze.

(SHOCK) (NITROUS OXIDE)

SMOLINSKIY, K.I.

Nitrous oxide anesthesia as a measure of prevention and early treatment of traumatic shock. Khirurgiia no.12:16-21 '61.
(MIRA 15:11)

1. Iz Leningradskoy stantsii skoroy pomoshchi (glavnyy vrach V.N. Golyakov).

(NITROUS OXIDE) (SHOCK)

KOMISSAROV, B.N.; SARKISOV, M.A., dotsent (Leningrad, 18, Pesochnaya, d.24, kv.3); SMOLINSKIY, K.I.

Intraosseous introduction of drugs in first aid treatment. Vest. Khir. 91 no.10:119-120 O '63. (MIRA 17:7)

1. Iz Leningradskoy stantsii skoroy pomoshchi (glavnyy vrach - V.N. Golyakov).

LUPASCU, Gh., prof.; HACIG, Alice, biolog; TINTAREANU, Justina, dr.; SOIOMON, Paula, biolog; SMOLINSKI, M., dr.

Diagnostic methods in trichinellosis. Value of immunobiological diagnosis in the study of apparent foci in the Rumanian People's Republic. Microbiologia (Bucur.) 10 no.3:233-244 My-Je '65.

SMOLINSKIY, R.

SMOLINSKIY, R., inzhener.

Improving the organization of passenger automobile transportation. Avt.transp.32 no.11:33 N '54. (MLRA 8:3)
(Transportation, Automotive)

SMOLINSKIY, R. (Ivano-Frankovsk)

The motor vehicle leasing system should be at the Union level.
Avt.transp. 41 no.2:16 F '63. (MIRA 16:2)
(Automobiles, Rental)

SMOLITSKIY, Kh. L.

Smolitzky, Kh. L. Le problème limite de la théorie de l'élasticité pour un cylindre infini. C. R. (Doklady) Acad. Sci. URSS (N.S.) 55, 391–394 (1947).

The author discusses a solution of the wave equation in cylindrical coordinates in terms of an integral representation which contains exponential functions and Chebyshev polynomials under the integral. An application of this type of solution to the equations of elasticity is indicated.

A. E. Heins (Pittsburgh, Pa.).

Source: Mathematical Reviews, Vol No.

SMOLITSKIY, Kh. L.

Smolitskiĭ, Kh. L. On almost-periodic generalized solutions of the wave equation. Doklady Akad. Nauk SSSR (N.S.) 60, 353–356 (1948). (Russian)

Let us consider the wave equation

$$\Box u = u_{xx} + u_{yy} + u_{zz} - u_{tt} = 0$$

subject to the condition $u = 0$ on S, the boundary of a finite region $R(x, y, z)$. Let E be the space of functions $\phi(R, t)$ continuous in $\bar{R} \times t$; $\bar{R} = R + S$, $-\infty < t < \infty$, and equal to zero outside of some bounded interval $t_1 \leqq t \leqq t_2$, dependent on ϕ. Let $\bar{E}$ be the set of all continuously twice differentiable functions in (R, t) belonging to E. The set in E satisfying $u = 0$ on S is called E_1, that satisfying $\partial u/\partial n = 0$ on S is called E_2. Let E^* be the space of linear functionals ρ on E, and (ρ, ϕ) the value of the functional applied to $\phi \epsilon E$. A functional $\rho \epsilon E^*$ is called a generalized solution of type I (II) if $(\rho, \Box\phi) = 0$ for all $\phi \epsilon E_1$ (E_2).

Let $w(x)$ be an even function, continuously differentiable to all orders, with the further properties that $w(x) = 1$, $|x| \leqq \frac{1}{3}$; $w(x) = 0$, $|x| \geqq 1$; and $w(x)$ is monotone in $[\frac{1}{3}, 1]$; set $k = \int_{-1}^{1} w(x)\,dx$. The functional ρ_h defined by

$$(\rho_h, \phi) = \left(\rho, (kh)^{-1} \int_{t-h}^{t+h} w((a-t)/h)\phi(R, a)\,da\right)$$

is called the mean value of the functional ρ with the weight $w(x)$. If $\rho \epsilon E^*$ has the property that

$$(\rho, \phi) = \int\int_R \rho(R, t)\phi(R, t)\,dR\,dt$$

then $\rho(R, t)$ is called the kernel of the functional ρ. Previous results by Sobolev [C. R. (Doklady) Acad. Sci. URSS (N.S.) 48, 542–545, 618–620 (1945); 49, 12–15 (1945); these Rev. 8, 78] had considered the case $u = 0$ on S. The author considers the condition $\partial u/\partial n = 0$ on S, and proves the following theorem. If ρ is a generalized solution of type II, then ρ_h has a kernel $\rho_h(R, t)$ having continuous derivatives of all orders. The mean value of the functional ρ_h has a kernel $\rho_{hh}(R, t)$, twice continuously differentiable, satisfying the wave equation and the boundary condition $\partial u/\partial n = 0$ on S. The almost-periodic property of the solution is derived using results contained in Sobolev's papers quoted above.

R. Bellman (Stanford University, Calif.).

Source: Mathematical Reviews, Vol 9 No. 9

PA 77T101

SMOLITSKIY, KH. L.

Apr 1948

USSR/Physics
Wave Mechanics
Mathematics, Applied

"On the Near-Periodicity of the Generalized Solution for the Wave Equation," Kh. L. Smolitskiy, 4 pp

"Dok Ak Nauk SSSR" Vol LX, No 3

Presents several solutions for various conditions of S. L. Sobolev's wave equation. Submitted by Acad S. L. Sobolev 26 Feb 1948.

77T101

SMOLITSKIY, Kh.L.

Smolitskiĭ, Kh. L. Some integral estimates of the derivatives of solutions of the wave equation. Doklady Akad. Nauk SSSR (N.S.) 73, 279–282 (1950). (Russian)

Let Ω be a domain in the $(x)=(x_1, \cdots, x_n)$-space bounded by a sufficiently smooth surface S. Let $u(x, t)$ be l times ($l \geqq 2$) continuously differentiable in $\Omega=\Omega+S$, $t \geqq 0$. Set $\Box u=\Delta u-u_{tt}=f$, $u|_S=\psi$, $u(x, 0)=u_0$, $u_t(x, 0)=u_1$. Let $F_k(t)$, U_0^k, U_1^k be the integrals (over S) of the sums of squares of all partial derivatives up to the order k of f, u_0, u_1, respectively. In each point of S let $(\xi_1, \cdots, \xi_n)$ be a Cartesian coordinate system such that the positive ξ_n-axis is the outer normal to S. Set $\psi_k(t)=\int_S \sum |\partial^{s+i}\psi/\partial t^s \partial \xi_{i_1} \cdots \partial \xi_{i_{n-1}}|^2 dS$ where the summation is extended over all positive s, i_j with $s+i_1+\cdots+i_{n-1} \leqq k$. Finally set

$$I_{r,\alpha}=\int_\Omega \sum |\partial^{r+\alpha} u/\partial t^r \partial x_{i_1} \cdots \partial x_{i_\alpha}|^2 d\Omega$$

where $i_1, \cdots, i_\alpha$ run independently from 1 to n. Let $t_0>0$. The author proves that there exists a function $A_k(t_0)$ and a constant A_k independent of u such that for $0 \leqq r+\alpha \leqq k<l$

$$\max_{0 \leqq t \leqq t_0} I_{r,\alpha} \leqq A_k(t_0) M^2,$$

where $M^2=\max_{0 \leqq t \leqq t_0}[U_0^k, U_1^k, \max F_k(t), \psi_{k+1}(t)]$,

and $\sup_{0 \leqq t<\infty} I_{r,\alpha} \leqq A_k \max(U_0^k, U_1^k)$ if $f \equiv 0$, $\psi \equiv 0$. These inequalities are used in the note reviewed below.

L. Bers (Los Angeles, Calif.).

Source: Mathematical Reviews, Vol 12 No. 10

SMOLITSKIY, KH. L.

Smolitskiĭ, H. L. The boundary value problem for the wave equation. Doklady Akad. Nauk SSSR (N.S.) 73, 463-466 (1950). (Russian)

Let Ω be a domain in the $(x)=(x_1, \cdots, x_n)$-space bounded by a smooth surface S. The following problem is considered: $u=u(x, t)$, $x \in \Omega$, $t \geqq 0$, is to satisfy the wave equation (1) $\Delta u - u_{tt} = f(x, t)$, the initial conditions $u(x, 0) = u_0(x)$, $u_t(x, 0) = u_1(x)$ and the boundary condition $u(x, t)|_S = \psi(x, t)|_S$. The given functions (2) f, u_0, u_1, ψ are to satisfy the compatibility conditions for $x \in S$ and $t=0$

$$\psi = u_0, \quad \psi_t = u_1, \quad \psi_{tt} = \Delta u_0 - f, \cdots. \tag{3}$$

The surface S is assumed to be such that the equation possesses arbitrarily smooth solutions for arbitrarily smooth f, u_0, u_1, ψ. A sufficient condition is that the maxima of the mth derivatives of eigenfunctions $u_k(x)$ satisfying $\Delta u + \lambda_k u = 0$, $u=0$ on S should be $O(\lambda_k^{m})$, and this condition is satisfied for infinitely differentiable Liapounoff surfaces. Three existence and uniqueness theorems are stated (and the proofs sketched) for the problem considered. The first assumes the infinite differentiability of the functions (2), and compatibility conditions (3) of all orders. The solution is then infinitely differentiable. In theorem 2 the solution is a "generalized" one. The functions (2) are assumed to have square-integrable mean derivatives of orders $\alpha, \beta, \beta-1, \gamma$, respectively, with $1 \leqq \delta \leqq \min(\alpha, \beta-1, \gamma)$, and the compatibility conditions are assumed to hold almost everywhere up to the order δ. Theorem 3 deals with "functional solutions". These are defined essentially like L. Schwartz' distributions, except that the comparison functions are finitely (and not infinitely) many times differentiable. *L. Bers.*

Source: Mathematical Reviews, Vol 12. No. 10

SMOLITSKIY, Kh. L.

PA 174T33

USSR/Mathematics - Approximation 11 Sep 50
Potentials

"Evaluating the Derivatives of Fundamental Functions," Kh. L. Smolitskiy

"Dok Ak Nauk SSSR" Vol LXXIV, No 2, pp 205-208

Considers 3-dimensional space bounded by smooth closed surface and orthogonal and normal system of fundamental functions and eigenvalues of Laplace eq. Purpose is to show certain k-th deriv of dependent variable appearing in Laplace eq is less than certain power of eigenvalue, for certain conditions. Submitted 1 Jul 50 by V. I. Smirnov.

174T33

[redacted]

GUNTHER, Nicolas M.; SMIRNOV, V.I., akademik, redaktor; SMOLITSKIY, Kh.L., professor, redaktor; AKILOV, G.P., redaktor; VOLCHOK, K.M., tekhnicheskiy redaktor

[Teory of potential and its application to the basic problems of mathematical physics [Translated from the French]] Teoriia potentsiala i ee primenenie k osnovnym zadacham matematicheskoi fiziki. Pod red. V.I.Smirnova, Kh.L.Smolitskogo. Moskva, Gos. izd-vo tekhn.-teorst. lit-ry, 1953. 415 p. (MLRA 7:9)
(Potential, Theory of) (Mathematical physics)

Smolitskiy, Kh. L.

USSR/ Geophysics

Card 1/1 Pub. 22 - 17/54

Authors : Smolitskiy, Kh. L.

Title : Generalization of a criterion for checking the interpretation of gravity observations

Periodical : Dok. AN SSSR 106/2, 237-238, Jan 11, 1956

Abstract : Mathematical manipulations are presented which lead to the generalization of the Lyapunov criterion used for checking and interpretation of observed gravitational data. One USSR references (1955).

Institution : .....

Presented by: Academician V. I. Smirnov, October 7, 1955

SMOLITSKIY, Kh.L.

Estimation of F.Neuman function derivatives. Dokl. AN SSSR 106 no.5: 785-787 F '56. (MLRA 9:7)

1.Leningradskaya voyenno vozdushnaya inzhenernaya akademiya. Predstavleno akademikom V.I.Smirnovym.
(Potential, Theory of)

SMOLITSKIY, Kh.L.

The summability of potentials. Usp.mat.nauk 12 no.4:349-356 J1-Ag '57. (MIRA 10:10)
(Mathematical physics)

43-7-13/18

AUTHOR: SMOLITSKIY, Kh. L.

TITLE: On a Singular Integral Appearing in the Summation Theory of the Multiple Fourier Integral (Ob odnom singulyarnom integrale, vstrechayushchemsya v teorii summirovaniya kratnogo integrala Fur'ye)

PERIODICAL: Vestnik Leningradskogo Universiteta, Seriya Matematiki, Mekhaniki i Astronomii, 1958, Nr 7 (2), pp 125-130 (USSR)

ABSTRACT: In the N-dimensional Euclidean space $x = (x_1, \ldots, x_N)$ Bochner [Ref.1] considered a summable function $f(x)$ with the Fourier transform

$$\hat{f}(\alpha) = \frac{1}{(2\pi)^N} \int_{E_N} f(x) e^{i(\alpha, x)} \, dx, \qquad (\alpha, x) = \sum_{k=1}^{N} \alpha_k x_k$$

and stated that for

$$S_R^{\delta} = \int_{\nu^2 \leq R^2} \left(1 - \frac{\nu^2}{R^2}\right)^{\delta} \hat{f}(\alpha) e^{-i(\alpha, x)} \, d\alpha, \qquad \nu^2 = \sum_{k=1}^{N} \alpha_k^2, \quad \delta > 0, \; R > 0$$

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On a Singular Integral Appearing in the Summation Theory of the Multiple Fourier Integral 43-7-13/18

there holds the following relation:

$$S_R^{\delta}(x) = \frac{2^{\delta+1-\frac{N}{2}}\Gamma(\delta+1)}{\Gamma(\frac{N}{2})} R \int_0^{\infty} f_x(t) \frac{J_{\delta+\frac{N}{2}}(Rt)}{(Rt)^{\delta+1-\frac{N}{2}}} dt \ldots .$$

Here $f_x(t)$ is the mean value of $f(x)$ on the sphere with the center in x and with the radius t. $J_k(t)$ is a Bessel function of k-th order.

For $\delta = \frac{N-1}{2}$ the integral of the absolute value of the kernel of S_R^{δ} does not exist; thus the investigation of $\lim_{R\to\infty} S_R^{\frac{N-1}{2}}(x)$ becomes difficult.

In the present paper the author gives examples of continuous $f(t)$ for which this limit value becomes infinitely large. Here for arbitrary odd $N \geqslant 1$ an example can be given and for arbitrary even $N \geqslant 1$ an other example can be given. The appearing kernel $R(Rt)^{-1/2} J_{N-\frac{1}{2}}(Rt)$ appears in the summation of the order $\frac{N-1}{2}$

Card 2/3

On a Singular Integral Appearing in the Summation Theory of the Multiple Fourier Integral 43-7-13/18

for N-fold Fourier integrals due to Riesz.
4 Soviet and 1 foreign references are quoted.

SUBMITTED: 15 February 1957
AVAILABLE: Library of Congress
Card 3/3 1. Integrals 2. Fouriers' series 3. Mathematics-Theory

On the Comparison Between the Significance of Single-Elements and General Samplings

it can be shown that Eq (9) is true for the condition (10). Generally, it can be stated that the greater m , n , q_i then the smaller the difference between the single element and general samplings. There are 3 Soviet references.

SUBMITTED: January 27, 1959.

Card 2/2

16(1)

AUTHOR: Smolitskiy, Kh. L.

SOV/43-59-7-4/17

TITLE: On the Imbedding Theorem (Ob odnoy teoreme vlozheniya)

PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki i astronomii, 1959, Nr 7(2), pp 32-40 (USSR)

ABSTRACT: Let Ω be a finite domain of the n-dimensional Euclidean space, $l \geqslant 1$ integral, $p \geqslant 1$, $0 \leqslant k < n$ constants. For l times continuously differentiable functions u(X) let

$$\|u\|_{N(l,k,p)} = \left\{ \sup_{X \in \Omega} \int_{\Omega} r^{-k} \left(\sum \left| D^{l} u(Y) \right|^{p} \right) dY + \int_{\Omega} |u(Y)|^{p} dY \right\}^{1/p}$$

where $r = |X-Y|$, $D^{l}u(Y)$ is the l-th derivative and the sum is extended to the different derivatives D^{l}.

Theorem: Let Ω be the sum of finitely many domains each of which being star-shaped with respect to its sphere. The integers l, $(l \geqslant 1)$, $m(0 \leqslant m \leqslant l-1)$, $j(1 \leqslant j \leqslant n)$ and the numbers $p \geqslant 1$, $k > 0$ and $\varkappa$ satisfy the conditions $k \leqslant \varkappa < j \leqslant n$, $0 \leqslant n-k-p(l-m) < j-\varkappa$. Let Ω_j be the intersection of Ω and a j-dimensional plane. For a

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ALEKSANDROV, A.D.; AKILOV, G.P.; ASHKEVITS, I.Ya.; VALLANDER, S.V.; VLADIMIROV, D.A.; VULIKH, B.Z.; GABURIN, M.K.; KANTOROVICH, L.V.; KOLBINA, L.I.; LOZINSKIY, S.M.; LADYZHENSKAYA, O.A.; LINNIK, Yu.V.; LEBEDEV, N.A.; MIKHLIN, S.G.; MAKAROV, B.M.; MATANSON, I.P.; NIKITIN, A.A.; POLYAKHOV, N.N.; PINSKER, A.G., SMIRNOV, V.I.; SAFRONOVA, G.P.; SMOLITSKIY, Kh.L.; FADDEYEV, D.K.

Grigorii Mikhailovich Fikhtengol'ts; obituary. Vest. LGU 14 no.19: 158-159 '59. (MIRA 12:9)
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DEMIDOVICH, Boris Pavlovich; MARON, Isaak Abramovich; SMOLITSKIY, Kh.L., prof., retsenzent; FROLOV, S.V., dotsent, retsenzent; SHOSTAK, R.Ya., retsenzent; YUSHKEVICH, A.A., retsenzent; BIRYUK, G.I., red.; AKHLAMOV, S.N., tekhn.red.

[Principles of computer mathematics] Osnovy vychislitel'noi matematiki. Pod obshchei red. B.P.Demidovicha. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 659 p. (MIRA 14:4)
(Mathematics)

SOBOLEV, Sergey L'vovich, akademik; SMOLITSKIY, Kh.L.; YAKOVLEV, I.A.

[Some applications of functional analysis in mathematical physics]Nekotorye primeneniia funktsional'nogo analiza v matematicheskoi fizike. Novosibirsk, Izd-vo Sibirskogo otdniia AN SSSR, 1962. 251 p. (MIRA 15:10)
(Functional analysis) (Mathematical physics)

DEMIDOVICH, Boris Pavlovich; MARON, Isaak Abramovich; SHUVALOVA, Emma Zinov'yeva; LEVITAN, B.M., prof., retsenzent; SMOLITSKIY, Kh.L., prof., retsenzent; BIRYUK, G.I., red.; AKHLAMOV, S.N., tekhn. red.

[Numerical methods of analysis; approximation of functions, differential equations] Chislennye metody analiza; priblizhenie funktsii, differentsial'nye uravneniia. Pod red. B.P. Demidovicha. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1962. 367 p. (MIRA 15:4)
(Functions) (Differential equations)

MIKHLIN, S.G.; SMOLITSKIY, Kh.L.; LYUSTERNIK, L.A., red.; YANPOL'SKIY, A.R., red.; LAPKO, A.F., red.

[Approximate methods of solving differential and integral equations] Priblizhennye metody resheniia differentsial'nykh i integral'nykh uravnenii. Moskva, Nauka, 1965. 383 p. (MIRA 18:3)

L 50202-65 EWT(d) Pg-4 IJP(c)
ACCESSION NR: AM5013828 BOOK EXPLOITATION UR/

17
B+1

Mikhlin, S. G.; Smolitskiy, Kh. L.

Methods for the approximate solution of differential and integral equations (Priblizhennyye metody resheniya differentsial'nykh i intergral'nykh uravneniy). Moscow, Izd-vo "Nauka", 1965. 383 p. illus., biblio., index. 20,750 copies printed.

Series note: Spravochnaya matematicheskaya biblioteka

TOPIC TAGS: mathematics, differential equation, integral equation, numerical method, analytical method, variational method and web method, Cauchy problem

PURPOSE: This book is intended for engineers, physicists, mathematicians, aspirants, and senior students who are engaged in studies where the approximate solution of differential and integral equations is needed.

COVERAGE: The book contains the most important analytical and approximate numerical methods for solving the basic problems of differential and integral equations and presents the basic results

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concerning the stability and accuracy of these methods. Chapter one is written by the two authors jointly. Chapter two was written by Kh. L. Smolitskiy and chapters three and four by S. G. Mikhlin.

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5. Bubnov-Galerkin and least squares methods -- 364
6. Approximate solution of singular integral equations -- 367

Bibliography

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SUB CODE: MA SUBMITTED: 26Sep64 NO REF SOV: 104

OTHER: 028

Card 4/4

L 00876-67 EWT(d)/EEC(k)-2/FSS-2

ACC NR: AP6024188 SOURCE CODE: UR/0424/66/000/002/0017/0022

AUTHOR: Smolitskiy, Kh. L. (Leningrad)

ORG: none

TITLE: Motion of a gyroscope in a Cardan suspension

SOURCE: Inzhenernyy zhurnal. Mekhanika tverdogo tela, no. 2, 1966, 17-22

TOPIC TAGS: gyroscope motion equation, gyroscope suspension

ABSTRACT: All possible motions of a balanced gyroscope in a Cardan suspension are considered without assuming that the initial velocities of the inner and outer frames are small. The integrals of motion determined from the initial conditions are written as:

$$\Omega = \Omega(\varphi_0^\circ, \alpha_0^\circ, \beta_0) \equiv \varphi_0^\circ - \alpha_0^\circ \sin\beta_0 = \varphi^\circ - \alpha^\circ \sin\beta$$

$$\delta = \delta(\varphi_0^\circ, \alpha_0^\circ, \beta_0) \equiv \Omega \sin\beta_0 - (Q - R\sin^2\beta_0)\alpha_0^\circ = \Omega\sin\beta - (Q - R\sin^2\beta)\alpha^\circ$$

$$K = K(\varphi_0^\circ, \alpha_0^\circ, \beta_0, \beta_0^\circ) \equiv \beta_0^{\circ 2} + \psi(\beta_0) = \beta^{\circ 2} + \psi(\beta),$$

where

$$P = \frac{J^{(0)} + J^{(2)}}{J}, \quad Q = \frac{J^{(0)} + J^{(3)} + J^{(4)}}{J}, \quad R = \frac{J^{(0)} + J^{(3)} - J^{(1)}}{J},$$

and

$$\psi(\beta) = \frac{(\Omega\sin\beta - \delta)^2}{P(Q - R\sin^2\beta)} = \frac{1}{P}(Q - R\sin^2\beta)\alpha^{\circ 2}.$$

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Here J, $J^{(0)}$ are the axial and equatorial moments of inertia of the rotor; $J^{(1)}$, $J^{(2)}$, $J^{(3)}$ are the moments of inertia of the inner frame relative to the axis coinciding with the rotor axis, relative to the axis of rotation of the frame, and relative to the axis perpendicular to the first two; $J^{(4)}$ is the moment of inertia of the outer frame relative to its axis of rotation; and φ, α, β are the rotation angles of the rotor, outer frame, and inner frame around their own axes of rotation (the subscript o denotes the initial value at time t = 0 and the superscript dot denotes the time derivative). The character of the gyroscope motion is determined by the location of the line $\gamma = K$ relative to the plot of the function $\gamma = \psi(\beta)$, which is continuous, nonnegative, and has periodicity 2π. The form of this plot determining the various types of motion is divided into five distinct types depending on the relative magnitudes of the parameters

$$\Delta = \frac{\delta}{\Omega}, \quad \varkappa = \frac{PQK}{\Omega^2}, \quad \rho = \frac{R}{Q} \quad (\rho < 1).$$

The various possible motions and their stability are discussed in detail. The drift of the outer ring under various conditions is described and approximation formulas are found for the conditions $|\dot{\varphi}_0| \geqslant |\dot{\alpha}_0|$, $|\dot{\varphi}_0| \geqslant |\dot{\beta}_0|$ and $\beta_0 \neq \pm 1/2\pi$, usual for technical applications of a gyroscope. The author thanks D. A. Bashkirov and Ya. L. Lunts for initiating interest in the problem. The author also thanks N. V. Butenin and Ya. L. Lunts for reading the manuscript and making a number of useful comments. Orig. art. has: 52 equations and 7 figures.

Card 2/2 hs SUB CODE: 20/ SUBM DATE: 06Feb65/ ORIG REF: 003

L 05220-66 EWA(h)/EWP(e)/EWT(d)/EWT(l)/EWT(m)/EPF(c)-2 IJP(c) JD
ACC NR: AP6028316 SOURCE CODE: UR/0040/66/030/004/0617/0624

35
B

AUTHOR: Lunts, Ya. L. (Leningrad); Smolitskiy, Kh. L. (Leningrad)

ORG: none

TITLE: A class of motions of conservative systems with one non-cyclic coordinate

SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 4, 1966, 617-624

TOPIC TAGS: gyroscope system, gyroscope stability, MOTION STABILITY

ABSTRACT: Generalized motions analogous to precession and nutation motion in a gyroscopic system are studied in order to find the conditions for stability at all speeds on a non-cyclic coordinate. A particular case of the necessary and sufficient conditions described is that of the stability of a gyroscope with a vertical outer axis. The instability of the system is determined by estimates on cyclical coordinates. The vector of average deviation of the system from unperturbed precession during the time of nearest nutation oscillation is defined. Several examples are offered to show the application of the formulas for stability conditions to specific gyroscope systems. Orig. art. has: 62 formulas.

SUB CODE: 12,20/ SUBM DATE: 18Jan66/ ORIG REF: 004

Card 1/1 gdk

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1. Stanislavskiy obshchetekhnicheskiy fakul'tet L'vovskogo politekhnicheskogo instituta.
(Automobiles--Design and construction)

SMOLINSKIY, R.I.

Automobile industry in Yugoslavia. Avt. prom. 30 no.8:43-45 Ag '64. (MIRA 17:11)

SMOLINSKIY, R.I.

Automobile industry in Bulgaria and Rumania. Avt.prom. 31 no.4:46-47 Ap '65. (MIRA 18:5)

BAGSHTEYN, Yu.A.; NOSKOV, I.N.; YAGUD, S.L.; SHCLIY, L.S. (Kiyev)

Morphological study of the mechanism of the potentiating action of toxin on antigenic stimulation by toxoid. Arkh. pat. 26 no.5:25-31 '64 (MIRA 18:1)

1. Chair of Microbiology and Virusology.

ACC NR: AP7005662 (A, N) SOURCE CODE: UR/0413/67/000/002/0118/0119

INVENTOR: Tsapko, M. Z.; Moroz, D. A.; Smoliy, V. G.; Bogomolov, V. S.; Nesterov, P. G.; Sergeyev, V. P.

ORG: None

TITLE: An automatic printer. Class 42, No. 190671 [announced by the Scientific Research Institute of Control Computers (Nauchno-issledovatel'skiy institut upravlyayushchikh vychilitel'nykh mashin)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 118-119

TOPIC TAGS: printing machinery, automatic machine

ABSTRACT: This Author's Certificate introduces an automatic printer which contains a register wheel and a colored ribbon. To increase printout capacity and provide a larger number of symbols, a two-register (double-row) spring loaded wheel is used with a two-color printing ribbon which has a guide lever. Reciprocating motion of the wheel and the ribbon guide lever along the shaft of the wheel is produced by interaction between cams set fast on the shaft and rollers located in the lower section of frames which are fixed in two positions by electromagnets controlled by pulse transmitters for switching the register and ribbon color.

UDC: 681.61:681.142

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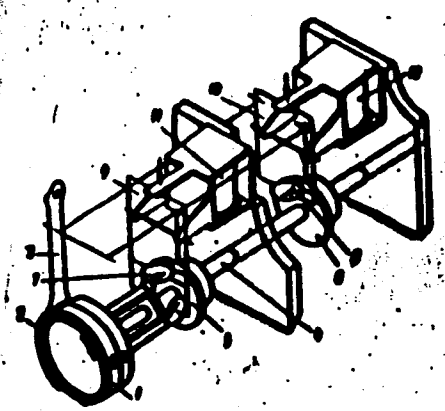
ACC NR: AP7005662



1—register wheel; 2—ribbon; 3—lever; 4—shaft; 5 and 6—cams; 7 and 8—rollers; 9 and 10—frames; 11 and 12—electromagnets

SUB CODE: 09, 14/ SUBM DATE: 14May65

Card 2/2

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Uncl.

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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

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"New Soviet records." p. 726

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Unclas

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SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

13

J. A. SMOLKA, H.

The position of alloys in patent legislation Hanuš Smolka. *Hutnické Listy*, Suppl. No. 2, 108–10(1950). The patent protection of alloys in various countries, particularly Czechoslovakia, is discussed. In Czechoslovakia chem. compds. are excluded from patent protection and this applies also to alloys in those special cases when the alloy represents a chem. unit, i.e. if the individual elements are present in a definite ratio to their mol. wts. On this point the legislation is similar in various other countries, e.g. England, Switzerland, Soviet Union, Germany, Austria, Hungary, Norway, Yugoslavia, and Poland. However, purely chem. compds. are patentable in the U. S. A., France, Belgium, Italy, Sweden, Denmark, and Rumania. In Holland there is no patent protection for a material as such, but a patent is obtainable for the production process of a substance. Eugene Gros

SMOLKA, H.

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Distr: 4E2c

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Powder metallurgy of costly metals. Hanuš Smolka. *Pokroky práškové met., Sborník konf., Brno* 1953, 406–12(Pub. 1954).—Au and Pt, being expensive, must be used in the correct ratio in Pt-Au alloys, in order to avoid any waste. Curves are presented for the elec. cond., hardness, d., and workability of Au-Pt from 0 to 100% Au, to make the right choice possible. Werner Jacobson

Gw
1/

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Familial occurrence of congenital cases of Fanconi's anemia. Cesk. pediat. 13 no.5:392-401 5 June 58.

1. Detske oddeleni KUNZ Ostrava V, prednostka MUDr. B. Vranova. B.V., Praha XII; Pod Zvonarkou 12.
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1. Vyzkumny ustav stavebni, Gottwaldov.

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HADEK, Jiri, inz.; [illegible], Josef, ing.

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1. Water Resources Management Agency of the city of Brno (for Hadek).
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(Pipe, Steel)

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SMOLKA, Karel

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1. OKE, Trebovice.

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1. Ostravsko-karvinske elektrarny National Enterprise, Trebovice.

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Acid catalysis of bis(2-chloroethyl) sulfide ionization.
Chem zvesti 18 no.4:259-265 '64

1. Antonin Zapotocky Military Academy, Brno.

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1. District National Health Centre, Psychiatric Ward, Trencin.

SMOLKA, P.

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Regulations of Polish ports concerning icebreakers. p. 264

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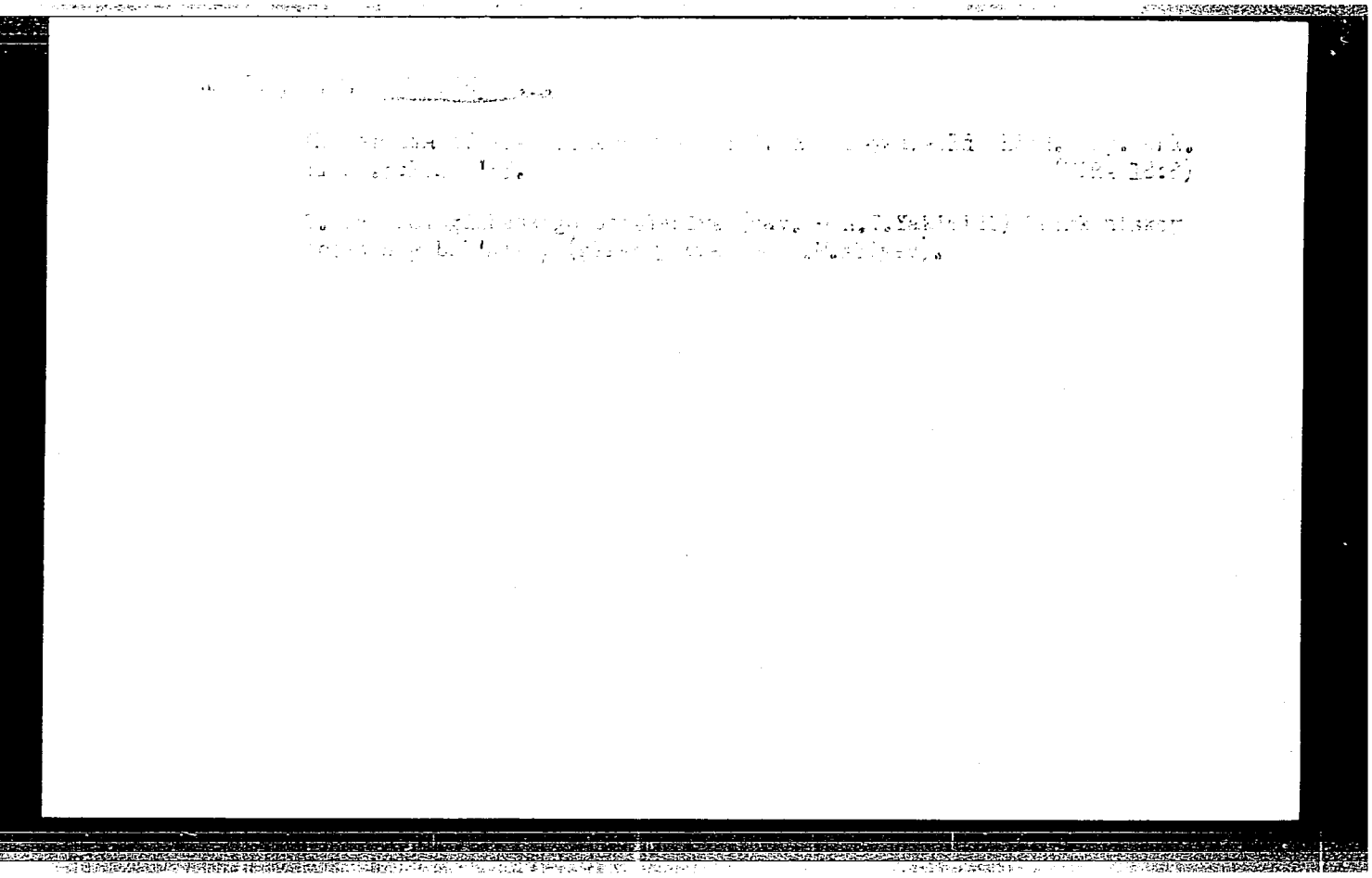
1. Iz urologicheskogo otdeleniya (zav. A.I.Yakimidi) Yuzhno-Kazakhstanskoy oblastnoy bol'nitsy.
(BLADDER—RADIOGRAPHY)



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(Automobiles--Engines)