KALICINSKI, Andrzej (Bialystok, ul. Lipowa 18a, m. 18)

Cutaneous, ulcerative form of Hodgkin's sarcoma. Polski tygod. lek. 13 no.46:1833-1835 17 Nov 58.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Bialymstoku; kierownik: prof. dr med Marian Tulczynski.

(SARCOMA, RETICULUM CELL, case report
cutaneous ulcerative type (Pol))

KALICINSKI,A.; KALICINSKA,Z.

Determination of hexoses in human blood serum by means of resorcin-4,6-disulfonic acid. Bul Ac Pol biol 7 no.7:249-252 '59. (KRAI 9:6)

1. First Clinic of Internal Diseases, School of Medicine, Bialystock. Presented by J.Heller.
(Hexoses) (Blood) (Resorcinoldisulfonic acid)

MIYNARCZYK, Marian; KALICIŃSKI, Andrzej

The course of pulmonary tuberculosis in two contrasting cases of secretory disorders of growth hormone. Gruslica 27 no.4: 321-326 Apr 59.

1. Z Kliniki Gruslicy Pluc A. M. w Bialymstoku p. o. Kierownik: dr med. Wl. Pregowski oraz z Kliniki Chorob Wewnetrznych w Bialymstoku p. o. Kierownik doc. dr med. W. Zankiewicz.
(TUBERCULOSIS PULMONARY, compl.) (GIGANTISM, etiol.)
(DWARFISM, etiol.)

KALICINSKI, A.

Glycosamine in umbilical and maternal blood. Acta biochim. polon. 7 no.2/3:425-428 '60.

1. I Klinika Chorob Wewnetrznych AM, Bialystok Kierownik: doc. dr med. W.Zankiewicz
(GLUCOSAMINE blood)
(PREGNANCY blood)
(UMBILICAL CORD blood supply)

KALICINSKI, Andrzej

Variable clinical course in a case of cryoglobulinemia. Pol. med. wewnet. 32 no.7:877-878 '62.

1. Z Kliniki Chorob Wewnetrznych AM w Bialymstoku Kierownik: prof. dr med. J. Chlebowski.

(CRYOGLOBULINS)

CHLEBOWSKI, Jakub; KALICINSKI, Andrzej; KOWAL, Edmund; ZABLOCKA, Irena

A case of Waldenstrom's macroglobulinemia. Contribution to the study of paraglobulinemia. Pol. arch. med. wewn. 33 no.4: 407-412 '63.

1. Z Kliniki Chorob Wewnetrznych AM im. J. Marchlewskiego w Bialymstoku Kierownik: prof. dr med. J. Chlebowski.
(MACROGLOBULINEMIA) (IMMUNOELECTROPHORESIS)
(DIAGNOSIS)

KALICINSKI, Andrzej

The protein-bound carbohydrates of various pleural and peritoneal fluids. Roczn. akad. med. Marchlewski: suppl. 9: 1-10 '64.

1. Z II Kliniki Chorob Wewnetrznych AMB (Kierownik: Prof. dr. Jakub Chlebowski.

KALICINSKI, Andrzej

Behavior of fucose (bound with serum proteins) in serositis and pneumonia. Pol. tyg. lek. 20 no.27:1004-1006 5 Jl '65.

1. Z II Kliniki Chorob Wewnetrznych AM w Bialymstoku (Kierownik: prof. dr. Jakub Chlebowski).

KALICINSKI, Andrzej

Behavior of fucose (bound with serum proteins) in cases of circulatory insufficiency, liver cirrhosis and some neoplastic diseases. Pol. tyg. lek. 20 no.36:1358-1359 6 S '65.

1. Z II Kliniki Chorob Wewnetrznych AM w Bialymstoku (Kierownik: prof. dr. Jakub Chlebowski).

KALICINSKI, J.

Applied Mechanics Reviews, V. 7 Nov. 1954 Rheology (Plastic, Viscoplastic Flow)

1789. Kalicinski, J., The influence of creep on concrete and reinforced-concrete structures (in Polish), *Inżyn. Budown.* 10, 1, 13-19, Jan. 1953.

Author gives useful data on final amplitudes and variations in the creep time and shrinkage of concrete as functions of variable parameters and makes a simplified analysis of the influence of these phenomena upon statically determinate and indeterminate structures. Especially considered are the change of the distribution of internal forces in reinforced columns, in hingeless and three-hinged arches, in continuous beams, and in frames (phenomenon of "adaptation"), etc. Author investigates the influence of nonuniform settling of the supports and temperature changes. Reviewer would like to draw attention to the objection involved by the use of fictitious, "effective," deformation modulus (as demonstrated, e.g., by F. Levi, AMR 5, Rev. 1710).

S. Kaufman, Poland

KALICINSKI, Jozef [deceased]; HOFFMAN, Henryk

Germanium recovery from etching solutions. Przegl elektroniki 3 no.10:573 O '62.

1. Fabryka Polprzewodnikow TEWA, Warszawa.

DECEASED

KALICINSKI, Jozef (deceased); HOFFMAN, Henryk

Recovery of germanium from etching solutions. Przem chem 41 no.12:726-727 D '62.

1. Fabryka Polprzewodnikow TEWA, Warszawa.

KALICINSKI, Zygmunt (Warszawa, ul. Litewska 16.)

Three cases of bleeding duodenal ulcers in children. Pediat. polska 34 no.1:92-95 Jan 59.

1. Z Kliniki Chirurgii Dziecięcej A. M. w Warszawie Kierownik: prof. dr med. J. Kossakowski.

(PEPTIC ULCER, in inf. & child, hemorrh. (Pol))

KALICINSKI, Zygmunt

Surgical removal of a foreign body from the mediastinum. Pediat. pol. 36 no.5:539-541 '61.

1. Z Kliniki Chirurgii Dziecicej w Warszawie Kierownik: prof. dr med. J. Kossakowski.

(MEDIASTINUM for. bodies)

KALICINSKI, Zygmunt

Traumatic rupture of abdominal tumors in children. Pol. przegl. chir. 36 no.5:673-675 My '64.

1. Z Kliniki Chirurgii Dzieciecej Akademii Medycznej w Warszawie (Kierownik: prof. dr J. Kossakowski).

KALICINSKI, Zygmunt

Studies on the duration of bleeding in great vessel injuries. Pol. przegl. chir. 36 no.1:31-36 Ja'64

1. Z Kliniki Chirurgii Dziecicej AM w Warszawie (kierownik: prof.dr. J.Kossakowski) i z Zakladu Chirurgii Doswiadczalnej PAN w Warszawie (kierownik: prof.dr. J.Nielubowicz).

KALICKA, M.

Observations on the fertility of bulbs on the chufa (Cyperus esculentus L.) depending on the type of soil. p. 132.

WIADOMOSCI BOTANICZNE. (Polskie Towarzystwo) Krakow, Poland.
Vol. 3, no. 2, 1959.

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

Uncl.

KALICZ, Nandor, dr., kandidatus

Agriculture is 9,000 years old in Anatolia! Pt.2.
Elet tud 18 no.39, 29: 1237-1239 S '63.

KALICZ, Nandor, dr., kandidatus

The agriculture is 9000 old in Anatolia; Elet tud 18 no.37:1168-1172 15 S '63.

SOV/112-57-9-18297

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 9, p 21 (USSR)

AUTHOR: Privezentsev, V. A., Dolidovich, A. B., Kalif, G. I.

TITLE: Estimating the Consumption of Braiding-Material in High-Quality Wire Manufacture (Raschet raskhoda materialov na opletku pri izgotovlenii provodov uluchshennogo kachestva)

PERIODICAL: Inform.-tekhn. sb. M-vo elektrotekhn. prom-sti SSSR, 1956, Nr 10, pp 16-20

ABSTRACT: One of the main reasons of inadequate flexibility of insulated wires is that a snug braiding compresses the wire insulation very tightly. A new method of wire braiding with a "slack" is described, which assures a more flexible wire suitable for various applications. A smooth, thin steel wire is fixed along the insulated wire and is braided together with it. This results in an artificial oversizing of braiding perimeter, and the braiding spreads more loosely around the insulated wire. To estimate the consumption of fibrous material necessary, the diameter of the insulated wire to be braided should be

Card 1/2

KALIGOROV, Khristo, dots. d-r

Organization of production, and increase of labor productivity.
Trud tseni 4 no.6:1-12 '62.

KALIGOROV, Khristo, dots. d-r.

Organization of management in industrial enterprises, and problems of its improvement. Trud tseni 5 no.6:1-16 '63.

KALIGOROV, Khr., dots. d-r

A book dedicated to the technical progress made in ferrous metallurgy. Min delo 18 no. 2:47-48 F '63.

FILIPSON, Ye.; BORISEVICH, N.; KALIGOZHIN, M.

Production of national varieties of horse-meat sausages and smoked products. Mias. ind. SSSR 32 no.3:23-24 '61.
(MIRA 14:7)

1. Kazakhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta myasnoy promyshlennosti (for Filipson, Borisevich).
2. Semipalatinskiy myasokombinat (for Kaligozhin).
(Kazakhstan--Horse meat)

KALIJO, D.

Geologic development of Estonia in the Paleozoic. p. ~~188.~~ 193

EESTI LOODUS. (Eesti NSV Teaduste Akadeemia). Tartu, Estonia.
No. 4, July 1959

Monthly List of East European Accessions (EEAI) LC, No. ~~4~~ Vol. 8, 12 Dec, July 1959.

Uncl.

GALKIN, B.I.; GRIGOR'YEV, V.M.; KALIK, A.M.; KARPOV, L.N.; LUR'YE, A.M.; MOMDZHI, G.S.; SMIRNOV, I.A.; KRYZHANOVSKIY, V.A., red.izd-va; PEN'KOVA, S.A., tekhn. red.

[Methods of testing iron ore deposits for germanium and other disseminated elements and the calculation of their resources] Metodika oprobovaniia zhelezorudnykh mestorozhdenii na germanii i drugie rasseiannye elementy i podscheta ikh zapasov. [By] B.I.Galkin i dr. Moskva, Gosgeoltekhizdat, 1963. 58 p. (MIRA 17:2)

BORZUNOV, V.M.; KALIK, A.M.

[Instruction on the use of the classification of resources for fluorspar deposits] Instruktsiia po primeneniiu klassifikatsii zapasov k mestorozhdeniiam plavikovogo shpata. Moskva, Nedra, 1965. 46 p. (MIRA 18:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennaya komissiya po zapasam poleznykh iskopaemykh.

KALIK, C.

Solving the Neumann problem in the multiple-connex domain, limited by a finite number of spheres. p. 745.

COMUNICARILE. Bucuresti, Rumania, Vol. 8, no. 8, Aug. 1958.

Monthly List of European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959.

Uncl.

KALIK, Carol

Solution of a limit problem for a biharmonic equation. Studii cerc mat Cluj 9 no.1/4:135-148 '58. (MEAI 10:5)

1. Institutul de calcul al Academiei R.P.R., Filiala Cluj.
(Hilbert space) (Vector analysis)
(Harmonic functions)

KALIK, Carol (Cluj)

On a problem arising in the designing of steam boilers. Studii cerc mat Cluj 11 no.1:85-93 '60. (EEAI 10:9)

(Steam boilers)

11053

KALIK, I.

USSR/Telecommunications and Mail - Govt Aug 1947
Control 4801.0300

"Control over the Finance of Undertakings of Communications Departments," I. Kalik, 1 p

"Vestnik Svyazi - Pochta" Vol VII, No 8

Criticism of expenditure plans for telecommunications and mail of the Kirgiz and Azerbaydzhan Republics. Suggestions are made for supervising the carrying-out of the expenditure plans and for determining what these expenditures are to be.

LC 11053

KALIK, I. A.; KALLISTOV, N. G.; L'VOV, S. G., and PREOBRAZHENSKIY, N. F.

"Bookkeeping and Control in Communications," 2nd edition - edited by Prof. Ya. M. Gal'perin, Svyaz'izdat, Moscow, 1950

Translation - No.464, 26 Sep 55

KALIK, K

KALIK, K- "On the problem of the convergence of algorithms of the Schwartz type". Leningrad, 1955. Leningrad Order of Lenin State U imeni A. A. Zhdanov. (Dissertation for the Degree of Candidate of Physicomathematical Sciences.)

SO: Knizhnaya Letopis' No. 46, 12 November 1955. Moscow

16(1)
AUTHOR: Kalik, K.

SOV/140-59-1-8/25

TITLE: On the Question of the Convergence of the Algorithms of the Type of Schwarz (K voprosu o skhodimosti algorifmov tipa Shvartsa)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 1, pp 75-90 (USSR)

ABSTRACT: The author considers the algorithm for the solution of the Dirichlet problem proposed by Schwarz at the end of the last century and generalized by S.G.Mikhlin [Ref 7]. It is stated that both algorithms are used for the solution of many boundary value problems; even strongly elliptic systems are admitted. The proofs of convergence of both algorithms as well as their other properties are given with the aid of the method of orthogonal projections. All proofs are given only for the elasticity equation $\mu\Delta u + (\lambda+\mu)\,\mathrm{grad\ div}\ u = 0$ but, according to the author, they hold also in the general case. The author mentions papers of G.N.Goluzin, S.Ya.Kogan, S.L.Sobolev, V.I.Krylov, A.Ya.Gorgidze, B.L.Shibayev.
There are 9 references, 8 of which are Soviet, and 1 Italian.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova (Leningrad State University imeni A.A.Zhdanov)

SUBMITTED: March 25, 1958

Card 1/1

5(3)

AUTHORS: Gol'dfarb, Ya. L., Kalik, M. A., Kirmalova, M. L.

SOV/79-29-6-57/72

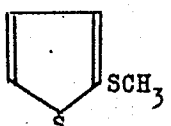
TITLE: Synthesis and Some Conversions of Sulfides of the Thiophen Series (Sintez i nekotoryye prevrashcheniya sul'fidov ryada tiofena)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 6, pp 2034-2042 (USSR)

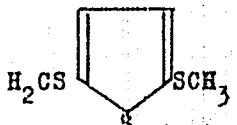
ABSTRACT: As far as the authors are informed only two alkyl thienyl sulfides i.e. methyl-2-thienyl sulfide (Refs 7-9) and ethyl-2-thienyl sulfide (Ref 8) have been described up to present. The yield of the accessible synthesis of 2-thienyl magnesium iodide, sulfur and methyl iodide (Ref 9) is 50-60 %. A more convenient way of synthesis of sulfides of the above mentioned type yielding up to 80 %, is described in the experimental part. It uses lithium derivatives of thiophen or its homologues which react with sulfur, like the organic magnesium compounds, the preparation of 2-halogen thiophen, however, is unnecessary and this is essential. In this way methyl-2-thienyl sulfide, ethyl-2-thienyl sulfide, methyl-(5-methyl-2-thienyl) sulfide, and ethyl-(5-ethyl-2-thienyl) sulfide were obtained. The conversion of thiophen with two mol n.-buthyl lithium and

Synthesis and Some Conversions of Sulfides of the Thiophen Series SOV/79-29-6-57/72

further with sulfur and methyl iodide leads in addition to methyl-2-thienyl sulfide (I) also to 2,5-bis-(methyl mercapto) thiophen (II):



(I)



(II)

Acetylation of alkyl thienyl sulfides in the presence of tin chloride and ortho-phosphoric acid was analyzed. It was proved that the acetyl group enters into the ortho-position in relation to the sulfide group, if both α-positions in thiophen are occupied and into position 5 in alkyl-2-thienyl sulfides. For the synthesis of compounds of the aliphatic series of the corresponding 3-substituted compounds of thiophen the method of hydrogenolysis is most convenient because it protects the α-positions of the thiophen nucleus with activating alkyl mercapto groups. The synthesized compounds are listed in both

Card 2/3

Synthesis and Some Conversions of Sulfides of the Thiophen Series SOV/79-29-6-57/72

tables. There are 2 tables and 21 references, 2 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR (Institute of Organic Chemistry of the Academy of Sciences, USSR)

SUBMITTED: June 2, 1958

Card 3/3

GOL'DFARB, Ya.L.; KALIK, M.A.; KIRMALOVA, M.L.

Synthesis and some conversions of sulfides of the thiophene series. Part 5: Synthesis and reactions of 2-mercaptothiophene. Zhur. ob. khim. 32 no.1:222-230 Ja '62. (MIRA 15:2)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR.
(Thiophene) (Mercapto compounds)

GOL'DFARB, Ya.L.; KALIK, M.A.; KIRMALOVA, M.L.

Synthesis and some transformations of sulfides of the thiophene series. Report No.6: Action of sodium in liquid ammonia on acetals of 2-ethyl- and 2-benzylmercapto-5-ethyl-3-thiophenaldehyde. Izv.AN SSSR Otd.khim.nauk no.4:701-709 Ap '62. (MIRA 15:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Thiophene) (Sodium)

GOL'DFARB, Ya.L.; KALIK, M.A.; KIRMALOVA, M.L.

Synthesis and some transformations of sulfides of the thiophene series. Report No.7: Synthesis and reactions of bis-(5-alkyl-2-mercaptothienyl) alkanes. Izv. AN SSSR Ser.khim. no.10:1801-1809 O '63. (MIRA 17:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

GOL'DFARB, Ya.L.; KALIK, M.A.; KIRMALOVA, M.L.

Synthesis and some transformations of sulfides of the thiophene series. Report No.8: Mechanism of 2-mercapto-5-ethyl-3-thanylidenimine formation. Izv.AN SSSR.Ser.khim. no.9:1675-1681 S '64.
(MIRA 17:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

KALIK, V.

"New Dermestidae Of Palaeoarctic Fauna. In English." p. 1.
(Sbornik. Acta Entomologica. Vol 26, No. 362, 1948-50, Praha.)

Vol. 3, No. 3.
SO: Monthly List of East European Accessions,/Library of Congress, March 1954, Uncl.

KALIKA, L.

Let's further the development of communist forms of labor. Sov. profsoiuzy 7 no.22:40 N '59. (MIRA 12:12)

1. Rukovoditel' brigady kommunisticheskogo truda moskovskogo zavoda "Dinamo" im. S.M.Kirova.
(Socialist competition)

ADAM, Yakov Isaakovich; OVUMYAN, Gegik Gegamovich; KALIKA, L.TS., inzh., retsenzent; NEMIROVSKIY, E.I., inzh., red.; YAKOVLEVA, V.I., red.izd-va; EL'KIND, V.D., tekhred.; SOKOLOVA, T.F., tekhred.

[Manual for operators of gear-milling machines] Spravochnik zuboreza-frezerovshchika. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1961. 271 p. (MIRA 14:4)
(Gear cutting)

GRAD, N.Ye.; KALIKA, S.B.; YELEN, B.L.

Centralization of the cutting operations for stiff leather in the Kiev Economic Region (to be concluded). Kozh.-obuv.prom. 2 4-7 My '60. (MIRA 13:9)
(Kiev Economic Region--Shoe manufacture)

GRAD, N.Ye.; KALIKA, S.B.; YELEN, B.L.

Centralization of leather cutting operations in the Kiev Economic Region (Conclusion). Kozh.obuv.prom. 2 no.6:1-4 Je '60. (MIRA 13:9)

(Kiev Economic Region--Shoe manufacture)

VAYNTRUB, V.K.; BORODAY, I.K.; GAL'PERIN, F.I. [deceased]; GRIB, A.I.; KALIKA, S.B.; KOLESNIK, I.V.; KRITSBERG, E.L.; KUPRIY, A.M.

Press molds for the hot vulcanization of rubber soles; Soviet Certificate of Inventions No.141077. Kozh.-obuv.prom. 4 no.8:42 Ag '62. (MIRA 15:8)
(Vulcanization—Technological innovations)

L 36793-66 EWP(1)

ACC NR: AP6027862 SOURCE CODE: CZ/0031/65/013/008/0526/0534

AUTHOR: Kalika, Vaclav (Engineer; Graduate economist)

ORG: State Institute for the Designing of Machine Building Plants, Projekta, Prague (Statni ustav pro projektovani zavodu strojirenstvi Projekta)

TITLE: Practical application of classification of parts and machine processing of data in the preparation of engineering plant projects

SOURCE: Strojirenska vyroba, v. 13, no. 8, 1965, 526-534

TOPIC TAGS: data processing, production engineering, industrial enterprise

ABSTRACT: The article shows, with selected examples, how important careful preparation of a design is for its overall value. From the viewpoint of design specialists, it deals with the practical application of classification of components and the machine processing of data in the preparation of designs. Orig. art. has: 6 figures, 3 formulas and 2 tables. [JPRS]

SUB CODE: 09, 05 / SUBM DATE: none

Card 1/1 UDC: 621.755 621.002.1 621.002:338.454 681.14 621.869.7

0917 1375

KALIKHEVICH, F.; IVAKINA, T.; DUBYAGO, I.A., nauchnyy sotrudnik; SENTSOVA, Yu.Ye., nauchnyy sotrudnik

Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.23:21-25 '61. (MIRA 15:3)

1. Nikolayevskaya stantsiya nablyudeniy iskusstvennykh sputnikov Zemli (for Kalikhevich, Ivakina).
(Artificial satellites--Tracking)

KALIKHEVICH, N.S.

Diurnal term in time service observations. Astron.zhur. 39 no.2:349-354 Mr-Ap '62. (MIRA 15:3)

1. Nikolayevskoye otdeleniye Glavnoy astronomicheskoy observatorii AN SSSR.

(Astronomical clocks)

URASIN, L.A.; KALIKHEVICH, F.F.; IVAKINA, T.Ya.; KLIMISHIN, I.A.; BRATIYCHUK, M.V.; RUSSO, Yu.D.; CHUPRINA, R.I., nauchnyy sotrudnik

Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.6:18-23 '59. (MIRA 13:6)

1. Sotrudnik Astronomicheskoy observatorii im. Engel'gardta, Kazan' (for Urasin). 2. Sotrudniki stantsii fotonablyudeniya iskusstvenykh sputnikov Zemli v Nikolayevskom otdelenii Glavnoy astronomicheskoy observatorii AN SSSR (for Kalikhevich, Ivakina). 3. Nachal'nik nablyudatel'noy stantsii Astronomicheskoy observatorii L'vovskogo gosuniversiteta im.Iv.Franko (for Klimishin). 4. Nachal'nik fotograficheskoy stantsii 073 Odesskoy astronomicheskoy observatorii (for Russo). 5. Astronomicheskiy Sovet AN SSSR (for Chuprina.

(Artificial satellites—Tracking)

SYSHCHENKO, T.Ye.; FIRAGO, B.A.; SHCHEGOLEV, D.Ye.; NEVEL'SKIY, A.V., mladshiy nauchnyy sotrudnik; KIRICHENKO, A.G., vychislitel'; BRATIYCHUK, M.V.; MAKSYUTOV, mladshiy nauchnyy sotrudnik; KALIKHEVICH, F.F., mladshiy nauchnyy sotrudnik; IVAKINA, T.Ya., laborant; KLEPESHTA, I.; RAYKHL, R.; VRATNIK, A.

Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput Zem. no.4:17-23 '60. (MIRA 13:11)

1. Glavnaya (Pulkovskaya) astronomicheskaya observatoriya AN SSSR (for Syshchenko, Firago, Shchegolev). 2. Astrosovet AN SSSR (for Nevel'skiy). 3. Nachal'nik stantsii opticheskikh nablyudeniy iskusstvennykh sputnikov Zemli, Uzhgorod (for Bratiychuk). 4. Stantsiya opticheskikh nablyudeniy iskusstvennogo sputnika Zemli, Uzhgorod (for Kirichenko). 5. Astronomicheskaya observatoriya im.Engel'gardta, Kazan' (for Maksyutov). 6. Nikolayevskoye otdeleniye Glavnoy astronomicheskoy observatoriya v Prage, Chekhoslovakiya (for Klepeshta, Raykhl, Vratnik).

(Artificial satellites--Tracking)

KALIKHEVICH, F.F

15

PHASE I BOOK EXPLOITATION SOV/5575

Akademiya nauk SSSR. Astronomicheskiy sovet.

Byulleten' stantsiy opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli, no. 6. (Bulletin of the Stations for Optical Observation of Artificial Earth Satellites. No. 6) Moscow, 1959. 23 p. 500 copies printed.

Sponsoring Agency: Astronomicheskiy sovet Akademii nauk SSSR.

Resp. Ed.: Ye. Z. Gindin; Secretary: O. A. Severnaya.

PURPOSE : This bulletin is intended for scientists and engineers concerned with optical tracking of artificial satellites.

COVERAGE : The bulletin contains 9 articles which present the results of satellite observations, and describe methods and specific equipment used for photographic observation of earth satellites. An appendix contains a listing of 84 Soviet satellite observation stations with station number. No personalities

Card 1/6

are mentioned. There are no references.

TABLE OF CONTENTS:

Card 2/6

Bulletin of the Stations (Cont.) SOV/5575

Card 5/6

TUMANYAN, B.Ye.; KALIKHEVICH, F.F.; IVAKINA, T.Ya.; BRATIYCHUK, M.V.; BELENKO, V.I.; KRYLOV, A.G.; SENTSOVA, Yu.Ye.; SHILKINA, Z.S.; YUREVICH, V.A.; ZAKHAROV, V.N.

Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.29:37-44 '62. (MIRA 16:2)

1. Nachal'nik Yerevanskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Tumanyan). 2. Nikolayevskaya stantsiya nablyudeniya iskusstvennykh sputnikov Zemli (for Kalikhevich, Ivakina). 3. Nachal'nik Uzhgorodskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Bratiychuk). 4. Zvenigorodskaya stantsiya Astronomicheskogo soveta AN SSSR (for Belenko, Krylov, Sentsova, Shilkina, Yurevich). 5. Nachal'nik Irkutskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Zakharov).
(Artificial satellites—Tracking)

KALIKHEVICH, F.F.

Results of photographic observations of minor planets in Nikolayev. Izv. GAO 23 no.4:192-193 '64. (MIRA 17:9)

KALIKHEVICH, F.F.

Installation and investigation of a zonal astrograph in Nikolayev. Izv. GAO 23 no.4:160-166 '64. (MIRA 17:9)

BROVENKO, V.Ya.; KALIKHEVICH, F.F.

Results of the investigation of the KIM-3 no.600001 instrument. Izv. GAO 23 no.4:167-170 '64. (MIRA 17:9)

IVAKINA, T.Ya.; KALIKHEVICH, F.F.; FEDOROVA, R.T.

Results of photographic observations of minor planets at Nikolaev.
Biul. Inst. teor. astron. 10 no.2:164-170 '65. (MIRA 18:7)

L 08932-67 EWT(1) GW

ACC NR: AR6025340 SOURCE CODE: UR/0269/66/000/004/0019/0019

25

AUTHOR: Kalikhevich, F. F.

TITLE: Determination of the atmospheric dispersion coefficient for a zonal astrograph

SOURCE: Ref. zh. Astronomiya, Abs. 4.51.139

REF SOURCE: Tr. 16-y Astrometr. konfer. SSSR, 1963. M.-L., Nauka, 1965, 95-97

TOPIC TAGS: ~~astronomy~~, planetary photography, ~~planetary~~ astrometry, photographic equipment, zonal astrograph, atmospheric dispersion coefficient

ABSTRACT: For the reduction of position observations of planets, the atmospheric dispersion coefficient has been determined for the zonal astrograph of the Nikolayevskaya observatory from observations of three areas of Captain in upper and lower culminations. The investigations were completed on each of the three plates on 34, 34, and 54 stars of 9 - 11^m of the spectral classes G8-K4, G8-K4, B3-K4, relative to 9 - 10 base stars 9.7 - 9^{m}9, B8-A0. The average weighted magnitude of the dispersion coefficient is 0".105 ± 0.018 for stars 10^m within limits of the spectral classes B5-K2. [Translation of abstract].

SUB CODE: 03, 04, 14

Card 1/1 nst UDC 522.9

KALIKHEVICH, N.S.

Catalog of right ascensions of 299 stars of the general list of U.S.S.R. Time Service obtained from the observations during the IGY and IGC with the APM-10 transit instrument in Nikolaev. Izv.GAO 23 no.1:14-30 '62. (MIRA 16:12)

ANUFRIYEVA, Ye.V.; BOLOTINA, I.A.; VOLCHEK, B.Z.; ILLARIONOVA, N.G.; KALIKHEVICH, V.I.; KOROTKINA, O.Z.; MITIN, Yu.V.; PTITSYN, O.B.; PURKINA, A.V.; [illegible], V.Ye.

Study of synthetic polypeptides. Report No.1. Transitions-intramolecular β-strucutre-coil in poly-S-carbobenzoxymethyl-L-cysteine. Biofizika 10 no.6:918-928 '65. (MIRA 19:1)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad.
Submitted April 22, 1965.

OGLOBLIN, K.A.; KALIKHEVICH, V.N.; POTEKHIN, A.A.; SEMENOV, V.P.

Interaction of nitrosyl chloride with unsaturated hydrocarbons. Part 9: Reaction with mono- and assym. disubstituted ethylenes. Zhur.ob. khim. 34 no.1:170-181 Ja '64. (MIRA 17:3)

1. Leningradskiy gosudarstvennyy universitet.

ANUFRIYEVA, Ye.V.; VOLCHEK, B.Z.; ILLARIONOVA, N.G.; KALIKHEVICH, V.N.; KOROTKINA, O.Z.; MITIN, Yu.V.; PTITSYN, O.B.; PURKINA, A.V.; ESKIN, V.Ye.

Synthesis of poly-S-carbobenzoxymethyl-L-cysteine and the study of its structure. Biofizika 10 no.2:346-347 '65. (MIRA 18:7)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad.

KALIKHMAN, A. A.

Changes in General Gas Metabolism and Oxidizing Proscesses of Tissues After a General Cooling of Warm-Blooded Animals
Excerpt from the book Voprosy Kriopatologii (Problems of Cryopathology), 1953, pp 61-71

The author has studied the intensity of O_2 consumption by white rats during rapid and slow cooling. This included the O_2 consumption of the entire animal and of its brain, liver, and muscle tissues. (RZhBiolKhim, No 3, 1955)

ACHKASOVA, T.A.,; KALIKHMAN, A.A.,; KOSTYUCHENOK, B.M.,; DEDYUKINA, V.V.

Modification of gas exchange and blood gases in pulmonary surgery under controlled hypothermia. Khirurgiia 32 no.1:78-85 J '56 (MIRA 9:6)

1. Iz gospital'noy khirurgicheskoy kliniki Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova (nach.-general-mayor meditsinskoy sluzhby prof. I.S. Kolesnikov) i gruppy kriopatologii AMN SSSR (rukovoditel' deystvitel'nyy chlen AMN SSSR prof. S.S. Girgolav)

(LUNGS, surg.
controlled hypothermia, gas exchange & gases in)
(BODY TEMPERATURE
hypothermia, controlled in lung surgery, gas exchange & blood gases in)
(BLOOD,
gas exchange in controlled hypertension during lung surg.)

KALIKHMAN, A.A.

Effect of total cooling on the preferred temperature (thermo-preferendum) in white rats. Opyt izuch. reg. fiziol. funk. 6:196-199 '63 (MIRA 17:3)

1. Gruppa fiziologii gazoobmena in teploobmena (rukovoditel' prof. R.P.Ol'nyanskaya) Instituta fiziologii imeni Pavlova AN SSSR.

ISAAKYAN, L.A.; KALIKHMAN, A.A.

Variation of gas exchange during the formation of a conditioned motor defense reaction in dogs. Opyt izuch. reg. fiziol. funk. 6:48-51 '63 (MIRA 17:3)

1. Gruppa fiziologii gazoobmena i teploobmena (rukovoditel' - prof. R.P.Ol'nyanskaya) laboratorii ekologicheskoy fiziologii (zav. - prof. A.D. Slonim) Instituta fiziologii imeni Pavlova AN SSSR.

KALIKHMAN, E. Ya.
CA

// G

Mineral composition of blood serum in acute rheumatism. K. Ya. Kalikhman (1st Lenin Med. Inst., Moscow). *Terapev. Arkh.* 22, No. 3, 84-5(1950).—During intervals of high body temp. the Mg concn. rises to 5.3 mg. % and is maintained there for 5–10 days (normal 2–2.9). In rheumatic attacks of low severity, the concn. may drop to 1–1.5 mg. %. P concn. varies similarly; variations of Ca and K concns. are irregular. These changes are similar to those induced in expt. animals (dogs and rabbits) by sensitization. Introduction of hypertonic NaCl soln. into the vein of a sensitized animal leads within 1 hr. to a sharp drop in the concn. of serum Na and a 170% rise in that of Mg (20–30% in controls), indicating displacement of Mg from tissues by Na and alteration of capillary membrane permeability; a similar explanation is probably true for the events in rheumatism.
G. M. Kosolapoff

BELINSKIY, Vasiliy Alekseyevich; KALIKMAN, Isaak Lipovich; MAYSTROV, Leonid Yefimovich; NIT'KIN, Aleksandr Miknaylovich; TAL'SKIY, D.A., red.

[Higher mathematics with the fundamentals of mathematical statistics] Vysshaia matematika s osnovami matematicheskoi statistiki. Moskva, Vysshaia shkola, 1965. 515 p.
(MIRA 18:8)

KALIKHMAN, L. E.

Vliianie formy profilia na sopротivlenie treniia. Issledovanie turbulentnogo pogranichnogo sloia v oblasti otryva. Moskva, 1937. 60 p., tables, diagrs. (TSAGI. Trudy, no. 333) Bibliography: p. 60.

Title tr.: Effect of profile form on friction drag. Investigation of the turbulent boundary layer in the region of breakaway.

QA911.M65 no. 333

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

KALIKHMAN, L. E.

A new method for calculating the turbulent boundary layer and determining the separation point. (Akademiia Nauk SSSR. Comptes rendus (Doklady) de l'Academie des Sciences de l'URSS. Nouvelle serie, 1943, v. 38, no. 5/6, p. 165-169, diagrs.)

Q60.A52 v. 38

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

KALIKHMAN, L.E.

Soprotivlenie i teplootdacha ploskoi plastiny v potoke gaza pri bol'shikh skorostiakh. (Prikladnia matematika i mekhanika, 1945, v. 9, no. 3, p. 245-256, diagrs., bibliography)

Summary in English.
Title tr.: Resistance and heat transfer of a plate in a gas flow at high speeds.
QA801.P7 1945

SO. Aeronautical Science and Aviation in the Soviet Union. Library of Congress, 1955.

Source: Mathematical Reviews, Vol No. 7

KALIKHMAN, L.E.

Heat transmission in the boundary layer. Washington, 1949. 43p.; diagrs. (U.S. NACA TM no. 1229)

Includes bibliography.

Trans. of Gazodinamicheskaia teoriia teploperedachi.

TL507.U57 no. 1229

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

KALIKHMAN, L. YE.

USSR/Physics - Heat Exchange

Oct 53

"Turbulent Friction and Heat Exchange of a Wedge in a Gaseous Stream, "N. N. Gvozdkov and M. F. Shirokov, Chair of Teoretic Phys.

Vest Mos Univ, Ser Fizikomat i Yest Nauk, No 7, pp 105-115

Attempts to compute the friction and heat exchange of a wedge in a stream for given temp distribution on its faces, taking into account the large velocities of circulation around the wedge. Refers to realted works of L. Ye. Kalikhman (Prik Mat i Mekh, Vol 9, No 3, 1945; Vol 10, No 4, 1946).

273T96

SIROTINA, Galina Nikolayevna; YERLYKINA, Irina Semenova; KALIKHMAN, L.Ye., retsenzent; SOLODKIN, V.K., redaktor; VINOGRADOVA, [illegible], redaktor izdatel'stva; KRASNAYA, A.K., tekhnicheskiy redaktor

[Book of problems in hydromechanics] Zadachnik po gidromekhanike. Moskva, Izd-vo "Rechnoi transport," 1956. 132 p. (MLRA 9:10)
(Fluid mechanics--Problems, exercises, etc.)

KALIKHMAN, L.Ye.

USSR/ Aerodynamics - Hydromechanics

Card 1/1 Pub. 22 - 6/43

Authors : Kalikhman, L. E.

Title : Turbulent boundary layer in a gas flow past a flat plate

Periodical : Dok. AN SSSR 106/1, 23-26, Jan 1, 1956

Abstract : A mathematical analysis is presented of the physical changes in the boundary layer of a flat plate in a stream of turbulent gas. Experimental and calculated data of some physical quantities are given in the form of diagrams for reasons of comparison. Five references: 2 USSR, 2 Jap. and 1 USA (1945-1954). Graphs; table.

Institution : .....

Presented by: Academician L. I. Sedov, October 1, 1955

Translation D 419 421, p. 61

KALIKHMAN, L.Ye.

Equations for the turbulent boundary layer in a gas, transformed to ordinary linear differential equations and solved in finite form. Dokl.AN SSSR 106 no.3:401-404 Ja '56. (MLRA 9:6)

1.Predstavleno akademikom L.I.Sedovym.
(Turbulence) (Boundary layer) (Gas flow)

The transformation does not demand any assumption of field velocities, boundary layer temperatures, or mechanical turbulence. Therefore, the calculations of the boundary layer are made by simple quadratics.

(Battel le)

KALIKHMAN, L. Ye.

"Heat Transfer Problems in Rarified Gases."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

29915
S/594/61/000/000/003/011
D234/D303

10.3400
26.5200

AUTHOR: Kalikhman, L.Ye. (Moscow)

TITLE: Problems of heat exchange in rarefied gases

SOURCE: Soveshchaniye po teplo- i massoobmenu. Minsk, 1961. Tezisy dokladov i soobshcheniy (Dopolneniye), 31-32

TEXT: The problems of convective heat exchange in rarefied gases are the same as under ordinary gas-dynamical conditions complicated by additional effects. Lowering of gas pressure leads first of all to a variation of the conditions on the surface - a jump in temperature and glide at the wall appear. The processes of interaction of the stream with the surface depend essentially on the coefficient of accommodation α and that of diffuse reflection σ. The principal problem of convective heat exchange consists in determining the coefficients of heat exchange (Stanton's number St_* or Nusselt's number Nu) as functions of the parameters M, Re, Pr, i_ω, α, σ and of Knudsen's number $Kn = M/\sqrt{Re}$. Accounting for the

Card 1/4

Problems of heat exchange...

effect of temperature jump in the Lis' [Abstracter's note: Name not identified and transliterated here] solution for plane and axially symmetric gas stream permits estimation of the effect of Knudsen's number on Nusselt's number at the critical point when thermodynamical equilibrium is supposed. With an increase of Kn, the intensity of heat exchange falls abruptly. The increase of the enthalpy factor i_ω leads to decrease of heat flows, and vice versa. Decrease of the accommodation coefficient from $\alpha = 0.8$ to $\alpha = 0.4$ leads to a very sharp decrease of the intensity of heat exchange. These conclusions agree with Gidt's [Abstracter's note: Name transliterated] experiments carried out at $i_\omega = 0.3$ and 0.7, at $M = 4.32 \div 5.7$ and $Re = 30 \div 80$ [Abstracter's note: Figures almost illegible, some are not guaranteed]. In Gidt's experiments the effect of M is practically absent, but further increase of this number under the conditions of low pressure must lead to freezing of the boundary layer. In this connection, heat exchange due to a recombination of atoms at the wall will become an acute problem. This problem, which has found sufficient development in Gulard's

Card 2/4

Problems of heat exchange...

and Rozner's [Abstracter's note: Names transliterated] works for the case of a solid medium, is not yet solved for rarefied gases, owing to lack of clarity in the boundary conditions for an inhomogeneous gas. The problem of heat exchange of a flat plate in a longitudinal stream has been solved by the author with the aid of two methods - that of linearization of the equations and that of series expansion with respect to a small parameter inversely proportional to mean free path. In the domain of large Kn, both solutions coincide; in that of small Kn the second solution is useless. The solution obtained is a generalization of Schaaf's solution which shows that in the conditions of equilibrium StM depends not only on Kn, but also on the ratio of densities $\rho_1/\rho_{\omega 1}$. Calculations have shown that StM at a constant Kn depends essentially on M and, to a lesser degree, on the enthalpy factor $\bar{i}_\omega$. To large M and to values of $\bar{i}_\omega$ essentially different from 1 there correspond considerable jumps of temperature at the surface. Certain difficulties are created by taking into account the effect of glide velocity in the boundary condition for the enthalpy of braking and exact accounting

Card 3/4

Problems of heat exchange...

for the work of friction force in the expression for heat flow. Calculations in which the above factors were taken into account, permit the conclusion that these effects are very essential for large Kn and M. The heat flow ceases then to be proportional to the enthalpy fall $i_e - i_\omega$. Calculations have shown that the intensity of heat exchange of a plate in a longitudinal stream decreases sharply with a decrease of α and σ. Extension of the results referring to plane streams of rarefied gas, to the case of conical streams with the aid of Stepanov's transformation is impracticable owing to changes in the boundary conditions. Direct calculations for this case give results which agree with the experiments of Drake and Maslech [Abstracter's note: Second name transliterated] [Abstracter's note: Complete translation]

Card 4/4

ACCESSION NR: AT4042279

electron diffusion in a field with a temperature gradient from the energy equation, fails to consider the effect of radiation and ignores emission of heat during ion and electron recombination in the boundary layer and on the electrode wall. The results are plotted graphically for Pr=0.01 (fully ionized plasma) and 0.1<Pr<1.25 (for the other variant) and show that a sharp increase in heat flow occurs at some critical value of the impurity ionization potential, when the ratio of flow velocity at the boundary layer edge to drift velocity is characterized by small values. Orig. art. has: 7 figures and 48 equations.

ASSOCIATION: none

SUBMITTED: 04Dec63 ENCL: 01

SUB CODE: ME NO REF SOV: 000 OTHER: 003

Card 2/3

ACCESSION NR: AT4042279

ENCLOSURE: 01

plasma

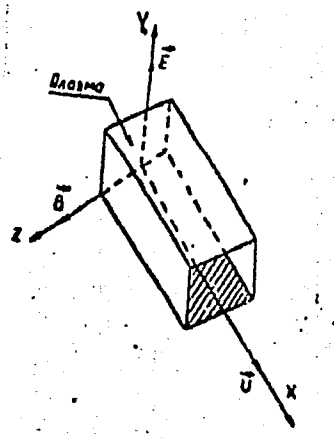


Fig 1. B = magnetic field induction, E = electric field intensity, U = plasma velocity

Card 3/3

L 20312-66 EWT(1)/EWP(m)/T-2 IJP(c)

AM5011705 BOOK EXPLOITATION UR/
533.9+621.45

Kalikhman, Leonid YEfimovich

Elements of magnetogasdynamics (Elementy magnitnoy gazodinamiki) Moscow, Atomizdat, 1964. 422 p. illus., biblio. Errata slip inserted. 3700 copies printed.

TOPIC TAGS: magnetogasdynamics, gas dynamics, electrodynamics, plasma, plasma flow

PURPOSE AND COVERAGE: The book gives a systematic presentation of magnetodynamic results which the author considers to be quite complete and of interest in engineering applications. Various aspects and the present status of problems in magnetogasdynamics are considered and the methods applied to their solution are presented. The possibilities of practical applications of results obtained in magnetogasdynamics are investigated. The book is intended for physicists and engineers who are interested in plasma physics.

Foreword -- 3

Card 1/3

L 20312-66

AM5011705

Card 2/3

L 20312-66

AM5011705

SUB CODE: AI, PH SUBMITTED: 23Oct64 NO REF SOV: 073

OTHER: 136

Card 3/3 BK

GAYGEROV, S.S.; KALINKMAN, M.Ya.

Some data on the aerological structure of the atmosphere near the Antarctic coast in winter. Trudy TsAO no.59:92-102 '64. (MIRA 19:1)

KALIKHMAN, S.G.

Wide-band amplifier. Radiotekhnika 8 no.6:52-63 N-D '53. (MIRA 11:6)

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i svyazi im. Popova.
(Amplifiers, Electron-tube)

KALIKHMAN, S. G.

112-2-4495

TRANSLATION FROM: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 2, p. 289 (USSR)

AUTHOR: Kalikhman, S. G.

TITLE: The Matched Cathode Load Amplifier (Usilitel' s soglasovannoy katodnoy nagruzkoy)

PERIODICAL: Tr. Vses. gos. n.-i. in-ta radioveshchat. priyema i akustiki, 1955, Nr 4, pp. 34-39

ABSTRACT: A "non-distorting" power amplifier with low harmonic coefficient (0.2 per cent) and output resistance $R_{outp.}$ close to filter resistance R_H in the operating frequency band can be built in the form of a cathode follower with a choke or transformer coupling circuit with a load. In the choke circuit values of R_1 and R_k are chosen so that $R_1/(\mu + 1) + R_o = R_H$, where $R_o = R_1 + R_k$, and $I_k R_k = U_{bias}$, the bias voltage. At the lower frequency ω_H the condition $\omega_H L_{choke} \gg R_1 + Z_{inp}$ must be met. Here Z_{inp} is the input resistance of the filters. In the medium frequency range $Z_{inp} = R_{inp} \approx R_H$. The overall transfer constant $K_{ovl} = U_H/U_{inp} = \mu/2(\mu + 1)$, and that of the cathode follower

Card 1/4

The Matched Cathode Load Amplifier (Cont.)

play an essential role, then the transformer circuit requires lower values of $U_{inp.}$ in which case it is advantageous to have $R_k = 0$. For a given value of R_k it is possible to have $R_H = R_{lim}$ when $U_{gk.choke} = U_{gk.tr.}$* When R_H R_{lim}, the choke circuit requires lower values of U_{gk}. As R_k grows they pass over to the transformer circuit. At ultra high frequencies, the effect of stray capacitance (not taken into account at ultra low frequencies) make it impossible to introduce the low frequency filter into the circuit. In this case, the filter elements are $L=(R_H-R_1-R_k)/\pi f_{cutoff}$, $C=2/ f_{cutoff} (R_H-R_1-R_k)$, where f_{cutoff} is the cutoff frequency. There are experimental data on ultra low frequencies (6C2C and 6Ж3C) with choke coupling for the frequency band 50 cps to 20 kc — P_H = 200 mw and K_g = 0.25% when R_H = 800 ohms and the gain is 16 db. The amplitude characteris-

Card 3/4

9(0) SOV/112-58-3-4893

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1958, Nr 3, p 216 (USSR)

AUTHOR: Kalikhman, S. G.

TITLE: The Design of IF Transistorized Amplifiers Based on an Investigation of Their Characteristic Parameters on the Radio-Frequency Band (Proyektirovaniye kristallicheskikh usiliteley promezhutochnoy chastoty na osnove issledovaniya ikh kharakteristicheskikh parametrov v diapazone radiochastot)

PERIODICAL: Tr. Vses. Gos. n.-i. in-ta radioveshchat. priyema i akustiki, 1956, Nr 7, pp 29-59

ABSTRACT: The transistor is considered as an active linear nonreversible 4-pole, characterized by 4 independent parameters. Mutual relationship among its characteristic parameters in various linear equation sets is examined for three transistor circuits. The characteristic parameters are usually measured with one transistor circuit (most frequently the common-emitter circuit). Using the

Card 1/4

9(0) SOV/112-58-3-4893

The Design of IF Transistorized Amplifiers Based on an Investigation of Their . . . .

characteristic-parameter interrelations, parameters for other circuits can easily be determined. Direct and indirect methods for experimental determination of characteristic parameters of junction transistors, at radio frequencies, are set forth. The transistor characteristic parameters include: short-circuit input admittance, short-circuit and open-circuit output admittances, "inflection" admittance, current amplification factor K_i, and power amplification factor K_r. The characteristic parameters can be measured by an impedance meter, an instrument used to determine admittance at a specified frequency. A simplified circuit diagram of the impedance meter is presented; the instrument includes an RF oscillator, a bridge circuit, and a sensitive receiver used as a balance indicator. The current-amplification-factor modulus is measured at radio frequencies by the same methods used at audio frequencies. The amplification-factor phase can be measured by a phase shifter connected to the collector circuit. However, the phase shift should

Card 2/4

9(0) SOV/112-58-3-4893

The Design of IF Transistorized Amplifiers Based on an Investigation of Their . . . .

preferably be determined from the current triangle. Complex values of K_i can also be determined simultaneously for all three circuits of the transistor. The power amplification factor is the most general criterion of the amplification ability of transistors operating in various schemes. Experimental response curves that are presented for two transistor types, P1E and P1Zh, within the 150-1,600-kc band, show that each transistor has a limit frequency, below which stable operation of the amplifier is impossible; K_r approaches infinity. For P1E transistor the limit frequency is 320 kc; for P1Zh, 630 kc. It is noted that, on the basis of the above investigations of transistor characteristic parameters, the problem of designing a compensated IF amplifier for 465 kc has been solved; the internal feedback in such an amplifier is neutralized. Local-oscillator and received-signal voltages are applied to the emitter and base respectively of a converter designed with type P1Zh transistor. To gain better filtration of the local-oscillator voltage, a band filter is used as

Card 3/4

9(0) SOV/112-58-3-4893

The Design of IF Transistorized Amplifiers Based on an Investigation of Their . . . .

a converter load. A two-stage IF amplifier can be designed with P1Zh transistor, each stage having an average gain of 22 db.

Ye.R.S.

Card 4/4

9(2) SOV/112-59-5-10019

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 226 (USSR)

AUTHOR: Kalikhman, S. G.

TITLE: Using Semiconductor Devices in Radio-Broadcast Equipment

PERIODICAL: Nauchno-tekhn. sb. Gos. soyuzn. n.-i. in-t radioveshchat. priyema i akustiki, 1957, Nr 9, pp 29-38

ABSTRACT: Type P6 transistors manufactured by Soviet industry are considerably superior to the previous type P1 transistor; the P6 type permitted developing a number of transistorized broadcast receivers and other apparatus. The experience of designing and manufacturing equipment has shown that transistors should be selected on the basis of these four parameters: power gain at 465 kc IF with a neutralization, current gain, reverse collector current I_{ko}, and the parameter Y_{12} that characterizes the internal transistor feedback. The importance of the first two parameters is obvious. I_{ko} determines the interchangeability, and the temperature and mode stability of the circuit. Y_{12} plays

Card 1/2

Using Semiconductor Devices in Radio-Broadcast Equipment

a role in neutralizing the stage. The transistor feedback is positive within the band lower than a certain frequency, and negative higher than that frequency. In both cases, neutralization is necessary: in the first case, it increases stability; in the second, gain. Neutralization is realized by an RC-circuit which is to be selected individually depending on the Y_{12}. The capacitance value is critical; it should be selected with an error of $\pm$5%. It should be noted that a transistor with a low Y_{12}, i.e., with a low collector capacitance, practically obviates neutralization. A litz wire without silk insulation is desirable for IF circuits; it permits Q-factors as high as 150-180. Recommendations are given for application of magnetic antennas in portable and table radio receivers; data is presented on "Festival'," "Kristall," "KRU-r-2" receivers, a speech-translation receiver, and a microphone amplifier developed by IRPA during 1955-1956.

I.F.N.