

24(3)

SOV/170-59-6-17/20

AUTHORS: Kliet-Dashinskiy, M.I., Minkov, I.M.

TITLE: The Problem of a Condenser Field With Circular Plates

PERIODICAL: Inshenerno-fizicheskiy zhurnal, 1959, Nr 6, pp 104-110 (USSR)

ABSTRACT: Some problems in the theory of electricity call for determination of the field originated by a condenser with circular plates. There are several approaches to this determination proposed by Serini [Ref 2], Nicholson [Ref 3] and Ignatovskiy [Ref 4], but the presentation of the potential in the form suggested by them leads to complicated calculations. The authors put forward a solution of this problem based on the new approach advanced by N.N. Lebedev [Ref 5] in a paper on electricity distribution on a paraboloidal segment. The determination of field potential is reduced to the solution of Fredholm's one-dimensional integral equation, Formula 12, with a continuous kernel, by means of which an auxiliary function $\Psi_p(x)$ is found. The final expression for the potential is given by Formula 14 which contains $K(k)$, a full elliptic integral of the first kind with the module k , and the function $G_r(r)$,

Card 1/2

AUTHORS: Yakhontova, V.Ye. and ^AKliot-Dashinskiy, M.I.

SOV/51-7-4-2/32

TITLE: On the Dependence of the Intensity of Certain Lines of Helium on Pressure

PERIODICAL: Optika i spektroskopiya, 1959, Vol 7, Nr 4, pp 446-453 (USSR)

ABSTRACT: The authors consider a cylindrical tube filled with helium at a certain pressure p . A narrow parallel beam of electrons of known velocity is assumed to pass along the tube axis. If the direct excitation of helium atoms by electron collisions is the only source responsible for emission by a given line, and the absorption of this line by helium inside the tube is negligible, then the intensity of this line will be proportional to pressure. Such proportionality was observed experimentally for some helium lines (Ref 2). Other helium lines, however, which also are not absorbed by helium in the tube (for example the 5016 and 3965 Å lines) depend on gas pressure in non-linear fashion. The authors show that in general the intensity of emission and the gas pressure are indeed related non-linearly. This is due to self-absorption effects in the discharge. Figs 2 (5016 Å line) and 3 (3965 Å) show that the

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On the Dependence of the Intensity of Certain Lines of Helium on Pressure SOV/51-7-4-2/32

theoretical relationships obtained here are in satisfactory quantitative agreement with experiment. There are 3 figures and 4 references, 2 of which are Soviet, 1 English and 1 translation from English into Russian.

SUBMITTED: February 26, 1959

Card 2/2

32876

S/044/61/000/012/031/054
0111/033324.500
AUTHOR:Kliot-Dashinskiy, M. I.

TITLE:

Stationary temperature distribution in a layer under local heating of its boundary

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 12, 1961, 54, abstract 12B233. ("XVIII Nauchn. konferentsiya prof.-prepodatav. sostava Leningr. inzh.-stroit. in-ta s uchastiyem predstavit. stroit. organizatsiy. predpriyatiy i nauchno-tekhn. o-v. Dokl. sektsiy soprotivl. materialov, matem. i teor. mekhan., fiz., khimii i elektrotekhn." L., 1960, 24-29)

TEXT:

In a layer $|z| < h$ the stationary temperature distribution is considered under the assumption that a constant temperature is maintained on the boundaries $z = \pm h$ in the circles $r < r_0$ (it is different on the lower and on the upper boundary), while outside of the circles a heat exchange with a medium with temperature zero takes place. The author represents the solution as an integral of Fourier-Bessel and reduces the problem to the solution of coupled integral equations which are reducible to Fredholm equations of second kind.

[Abstracter's note: Complete translation.]

Card 1/1

X

KLJOT-DASHINSKIY, M.I. (Leningrad)

Fluid flow toward a small well in a pressure-actuated bed lying on a highly permeable layer. *Izv. AN SSSR. Otd. tekhn. nauk. Mekh. i mashinostr. no. 5:193-196 8-0 '60.* (MIRA 13:9)

(Percolation)

KIRSANOV, V. M.; KOHOVALOV, V. S.; KLIPA, V. M.; STUPAR', N. I.

Various methods of heating ingot heads and their effect on
the quality of killed steel. *Izv. vys. ucheb. zav.; Chern. met.*
7 no. 4:56-61 '64. (MIRA 17:5)

1. Dnepropetrovskiy metallurgicheskiy institut.

KIRYUSHKIN, Viktor Vladimirovich; KLIPPEL, Vladimir Ivanovich

[Voyage on the "Skorlupka."] Puteshestvie na "Skorlupka."
Blagoveshchensk, Amurskoe knizhnoe izd-vo, 1958. 171 p.
(MIRA 12:6)

(Amur Valley--Description and travel)

KIRYUSHKIN, Viktor Vladimirovich; KLIPPEL', V.I.

[Voyage on the "Skorlupka."] Puteshestvie na "Skorlupka." Moskva,
Molodaia gvardia, 1960. 157 p. (MIRA 14:10)
(Amur Valley--Description and travel)

USENKO, Nikolay Vasil'yevich; KLIFEL', V.I., red.

[Pictures of our country's nature] Kartinki rodnoi prirody.
Khabarovsk, Khabarovskoe knizhnoe izd-vo, 1965. 93 p.
(MIRA 18:12)

KLIFICH, M.S. (Ivano-Frankovsk (obl.), ul. Frunze, 22, kv.6)

Dynamics of the formation of collaterals and functional change in the thyroid gland after the exclusion of its supplying vessels.
Arkhnat., gist. i sabr. 47 no.10:76-81 0 '64.

(MIRA 18:6)

1. Kafedra normal'noy anatomii (zav. - prof. Ye.F.Mel'zan) Ivano-Frankovskogo meditsinskogo instituta.

KLIPICH, V.I. Card Med Sci -- (Etiology, pathogenesis and treatment so-called cystalgia in women (Experimental and clinical investigation)," Lvov, 1958, 16 pp, 200 cop. (Lvov State Medical Institute) (KL, 42-60, 116)

KOL'MAN, Yu.P.; KAPSKAYA, Ye.I. [Kaps'ka, Ye.I.]; KLIPICH, V.I. [Klypych, V.I.]

Mechanism of interoceptive influences from organs of the lesser pelvis on stomach and kidneys. Report No.1: Conduction of afferent impulses through hypogastric nerves. *Fiziol.shur.* [Ukr.] 5 no.4:461-470 J1-Ag '59. (MIRA 12:11)

1. Stanislavskiy meditsinskiy institut, kafedry normal'noy anatomi, normal'noy fiziologii i gosital'noy khirurgii. (VISCERA--INNERVATION)

KLIFICH, V.I.; OSADCHUK, V.I.

Problem of urethrovenous reflux. Urologia 25 no.2:59-61
Mr-Apr '60. (MIRA 13:12)
(CONTRAST MEDIA) (GENITOURINARY SYSTEM--RADIOGRAPHY)

KLIPICH, V.I.

Comparative evaluation of variations of ureteroplasty using small
intestine; an experimental study. Urologia 26 no.1:37-41 '61.
(MIRA 14:3)

(URETER—SURGERY)

(INTESTINES—TRANSPLANTATION)

OSADCHUK, V.I., KLIPICH, V.I.

Anomalies of the seminal duct in combination with anomalies of the kidneys and ureters. Urologia 26 no.1:65-66 '61.

(MIRA 14:3)

(~~KIDNEYS~~—ABNORMALITIES AND DEFORMITIES)
(~~URETER~~—ABNORMALITIES AND DEFORMITIES)
(~~SEMINAL VESICLES~~—ABNORMALITIES AND DEFORMITIES)

KLIPICH, V.I., kand.med.nauk

Etiopathogenesis and treatment of cystalgia. Urologia 28 no.2:
42-45 Mr-Apr'63. (MIRA 16:6)

1. Is gosptal'noy khirurgicheskoj kliniki (sav. - prof. S.A. Verkhratskiy) i kafedry normal'noy anatomii (sav. - prof. Ye.P.Mel'man) Stanislavskogo meditsinskogo instituta.
(BLADDER---DISEASES) (PAIN)

MEL'MAN, Ye.P.; KARPLYUK, Z.V.; KLIPICH, V.I.; KOTURBASH, T.V.; KHANANAYEV, L.I.

Effectiveness of revascularisation of the testis by the directed change of their blood supply; experimental study. Urologia. 29 no.3:16-21 My-Je '64. (MIRA 18:10)

1. Kafedra anatomii (sav.- prof. Ye.P. Mel'man), gospi'tal'naya khirurgicheskaya klinika (sav.- prof. S.A. Verkhvatskiy), kafedra biokhimi'i (sav.- doktor med. nauk G.A. Pabenko) i kafedra topograficheskoy anatomii s operativnoy khirurgiyey (sav.- prof. L.A. Nikol'skaya) Ivano-Frankovskogo meditsinskogo instituta.

KLIPNITSER, B.

Outstanding assembler. Stroitel'no.9:28 S '61.
(MIRA 14:12)
(~~Novo-Troitsk—Construction industry—Employee~~)

KLIPINITSER, M.

Smelting. Metallurg 10 no.4:18 Ap '65.

(MIRA 18:7)

KIRYIN, Yevgeniy Ivanovich, arkhitektor; KLIPINITSER, M.S., red.;
TSYURKO, M.I., tekhn.red.

[Use standard designs in building] Stroite po tipovym proektam.
Orenburg, Orenburgskoe knizhnoe izd-vo, 1960. 13 p. (V pakhod
na bol'shuyu kul'turu sela, no.2). (MIRA 14;2)
(Clubhouses) (Public buildings)

MALYGIN, Viktor Makarovich; KLIPINITSER, M.S., red.; SAVINOVA, Ye.I.,
red.; DEMENKOVA, L.I., tekhn. red.

[Heroic work on virgin lands; chronicles of the bringing of the
virgin lands of Orenburg Province under cultivation] Podvig na
tselne; letopis' osvoenia tselimnykh zemel' Orenburgskoi ob-
lasti. Orenburg, Orenburgskoe knizhnoe izd-vo, 1961. 271 p.
(MIRA 15:1)

(Orenburg Province--Agriculture)

AUTHORS: Eydel'man, A.Ye., Yelenskiy, P.Z., and Klipinitser, T.S. Sov/68-59-10-7/24
TITLE: Characteristics of the Size Distribution of Coke
PERIODICAL: Koks i khimiya, 1959, Nr 10, pp 27-30 (USSR)
ABSTRACT: In view of the variability of the size distribution of coke which could not be explained by the coking technology, the accuracy of the determination of the size distribution of coke using mechanised screens with square mesh was investigated. It was established that due to the prismatic structure of coke, screening on square mesh screens does not give a correct picture of the size distribution of coke. About 15% of lumps from the fraction 60-80mm finds its way into the 60-40mm fraction. This value is not constant and depends on the structure of the coke. In parallel determinations of the size distribution of coke, deviations in the +40mm fraction amount to 2.5% while the results for the -40mm fraction were more accurate. In large coke sizes about 36% of all lumps possess the coefficient of "columnarity" (ratio of height to width) of 1.1-1.3 and 33% of 1.3-1.5. There are 4 figures and 4 tables.
ASSOCIATION: Zaporozhskiy koksokhimicheskiy zavod (Zaporozh'ye Coking Works)
Card 1/1

AKIMENKO, A.D.; ASTROV, Ye.I.; SKVORTSOV, A.A.; POLUSHKIN, N.A.; KLIPOV, A.D.

Effect of the intensity of secondary cooling on the quality of continuous casting. Stal' 24 no.12:1088-1089 D '64.

(MIRA 18:2)

1. Gor'kovskiy politekhnicheskiy institut im. Zhukova,
TSentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii imeni I.P. 1 Gor'kovskiy metallurgicheskiy zavod.

DAMSKIY, A.I.; TATARINOV, I.I., nauchnyy red.; KLIPPEL', M.S., red.;
COLOVKINA, A.A., tekhn. red.

[Electric light fixtures for dwellings and public buildings
constructed on a mass construction basis]Svetil'niki dlia
shilykh i obshchestvennykh zdaniy massovogo stroitel'stva.
Moskva, Gosstroizdat, 1962. 125 p. (MIRA 16:3)
(Electric light fixtures)

KLIPPER, A., dr.; BADER, M., dr.; PAINA, N., dr.

Epidemiological research on leptospirosis on a pig-
breeding and fattening farm. Microbiologia (Bucur) 3
no.5:427-431 S-0'58.

KLIPPERT, K.K.

Materials on the reproduction of the mallard. Trudy Inst. secl. AN
Kazakh. SSR 6:203-206 '56. (MIRA 10:4)
(Taldy-Kurgan Province--Ducks)

KLIPSON, N.A.; MAMEDOV, T.G.; TARUSOV, B.N.

Luminescence method for studying free radical states. Trudy
MDIP. Otd. biol. 21:107-111 '65. (MIRA 18:6)

L 14157-66 EWA(h)/EWP(j)/EWT(m)/EWA(1) EM/JK
ACC NR: AP6001911 SOURCE CODE: UR/0248/65/000/009/0018/0022

AUTHOR: Ivannik, N. P.; Klipson, N. A.; Mamedova, T. G.; Ryabchenko, N. I.; Sklabovskaya, M. V.; Yaskevich, A. G.

64
B

ORG: Institute of Medical Radiology, AMN SSSR, Obninsk (Institut meditsinskoy radiologii AMN SSSR)

TITLE: Molecular mechanisms underlying radiation-induced cytogenetic injuries

SOURCE: AMN SSSR. Vestnik, no. 9, 1965, 18-22

TOPIC TAGS: free radical, radiation injury, ionizing radiation, UV radiation, DNA

ABSTRACT: The nature of the injuries produced by different forms of free radicals and by radiation at the cellular and molecular levels is investigated and the local injuries to DNA and DNP are described. The damage to the basic matrix structure of the cell nucleus following ionizing radiation is secondary to the cell's direct absorption of radiant energy. This damage cannot be duplicated by the action of free radicals or ultraviolet radiation. There is a difference between the primary physicochemical changes in DNA and DNP arising from ionizing radiation, free radicals,

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UDC: 612.014.22].24-06 : 612.014.482+612.014.482 : 612.014.22].24

2

L 14157-66
ACC NR: AP6001311

or from ultraviolet rays. Orig. art. has: 2 figures, 2 tables.

SUB CODE: 06/ SUBM DATE: 05Jun65/ ORIG REF: 005/ OTH REF: 003

Card 2/2 *do*

KLIPTSAN, N.M., vrach

Significance of the examination of bronchial secretions following
bronchography in determining of bacillosis in tuberculous patients.
Zdrav.Bel. 7 no.11:11-12 N '61. (MIRA 15:11)

1. Tuberkuleznoye otdeleniye 4 klinicheskoy bol'nitsy g. Minska
(glavnyy vrach Ye.M.Sel'dimirova).
(TUBERCULOSIS)

KLIPTSAN, N.M.; LEVIN, M.Kh.

Use of bronchography in the clinical treatment of pulmonary tuberculosis. Zdrav. Belor. 6 no. 5:43-45 My '60.

(MIRA 13:10)

1. Tuberkulesnoye otdeleniye 4-y klinicheskoy bol'nitsy (glavnyy vrach Ye.M. Sel'dimirova) (for Kliptsan). 2. Beloruskiy Institut tuberkuleza (direktor M.N. Lomako) (for Levin).
(TUBERCULOSIS) (BRONCHI—RADIOGRAPHY)

KLIPSON, N.A.; MAMKDOV, T.G.

Biological action of free radicals obtained from the anodic
oxidation of tyrosine. Radiobiologia 3 no.1:146-147 '69.
(MIRA 1642)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova,
biologo-pochvennyy fakul'tet.
(TYROSINE) (OKIDATION, ELECTROLYTIC)
(RADICALS (CHEMISTRY))

2/026/62/007/004/002/004
D407/D301

AUTHOR: Klír, Jiří, Engineer

TITLE: Solving Boolean equation systems

PERIODICAL: Aplikace matematiky, v. 7, no. 4, 1962, 265-271

TEXT: The article, mainly based on Western publications, indicates the use of Boolean algebras in the synthesis of logical networks; describes one of the well-known algorithms for practical solution of a system of Boolean equations with n unknowns; and lists as an example, the complete solution of a Boolean equation with one unknown. The possibility of using Boolean algebras in logical design is explained with the aid of four examples where logical networks are transformed from one into another form, where the state of a memory element at a given time $(t + 1)$ is described dependent on its previous state at the original time (t) , and where correlations of transition codes have to be formulated. It is then shown that each system of Boolean equations can be expressed by a single canonical equation

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Solving Boolean equation systems

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$$\sum_{i=0}^{2n-1} \Lambda_i X_i = 0 \quad (13)$$

where X_i are basic conjunctions of all variables x_1, x_2, \dots, x_n , corresponding with the index of state i , and Λ_i are certain functions of the variables a_1, a_2, \dots, a_m . The solution of equation (13) consists in finding all those expressions for x_p in the form of

$$x_p = F_p(a_1, a_2, \dots, a_m), \quad p = 1, 2, \dots, n. \quad (10)$$

where the left side of equation (13) assumes the value zero after substitution of x_p . From the various well-known methods, the article describes a solution which consists of the following steps:
1) Formulation of all unknown x_p , including their negation \bar{x}_p , in the form

$$x_p = \sum_{j=0}^{2^m-1} K_{p,j} \cdot \alpha_j, \quad p = 1, 2, \dots, n \quad (14)$$

Solving Boolean equation systems

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D407/D301

$$\bar{x}_p = \sum_{j=0}^{2^m-1} \bar{K}_{p,j} \cdot \alpha_j, \quad (14)$$

where α_j are basic conjunctions of the variables a_1, a_2, \dots, a_m , corresponding to the index of state j , and $K_{p,j}$ are so far unknown constants which may assume the value 0 or 1. 2) Substitution of x_p and \bar{x}_p ($p = 1, 2, \dots, n$) into equation (13) and factoring-out of same basic conjunctions α_j ($j = 0, 1, \dots, 2^m-1$). The coefficients thus originating at individual conjunctions α_j are designated X_j ($j = 0, 1, \dots, 2^m-1$). 3) In case of coefficients $X_j = 1$, the corresponding conjunction must be $\alpha_j = 0$. In all other conjunctions, one can assume $X_j = 0$, and from the equations thus obtained, one can determine the suitable selection $n \cdot 2^m$ of numbers $K_{p,j}$. By substituting $K_{p,j}$ into equation (14), one arrives at solutions of equation (10) and equation (13). It is also indicated that the problem of minimizing the number of symbols in Boolean functions can be solved with the aid of Svoboda maps (Ref. 4: A. Svoboda: Graphical-mechani-

Card 3/4

Solving Boolean equation systems

Z/026/62/007/004/002/004
D407/D301

cal aids for the synthesis of relay circuits. Nachrichtentechnische Fachberichte, Beihefte NTZ, Vöveg, Brunswick, 1956, 4, pp 213-218). To illustrate the described method of solving a Boolean equation, the author calculates a flip-flop circuit with one input and two disjunctive states. There are 2 figures. ✓

ASSOCIATION: Výzkumný ústav matematických strojů (Research Institute of Mathematical Machines)

SUBMITTED: November 13, 1959

Card 4/4

KAHAK, Josef, ins.; KLIR, Josef, ins.

Wooden railway sleepers; revision of the Czechoslovak standards.
Drevo 18 no.3:112-114 Mr '63.

1. Oberove normalizacne stredisko, Statny drevarsky
vyskumny ustav, Bratislava (for Kahak). 2. Urad pro
normalisaci a mereni, Praha (for Klir).

KLIR, J.; RYJKA, A.

"Mechanization and More Productive Methods of Labor in Forestry", P. 744,
(ZA SOCIALISTICKE ZEMEDLSTVI, Vol. 4, No. 7/8, July/Aug. 1954, Praha,
Czechoslovakia)

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

KLIR, J.

"Standardization in forestry."

p. 338 (Les) Vol. 12, no. 7/8, July/Aug. 1956
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (ESAI) LC. Vol. 7, no. 4,
April 1958

KLIR, J.

New modification of technical requirements for pitwood. p. 26

Normalizace. (Urad pro normalizace) Praha, Czechoslovakia.
Vol. 7, no. 2, Aug. 1959

Monthly list of East European Accessions (SEAI) LC, vol. 9, no.1, Jan.
1960

Uncl.

M. H. Josef, ins.

International standardization of wooden floor materials.
Dřevo 19 no.1:33-34 Ja'64.

1. Úrad pro normalizaci a měření, Praha.

KLIR, Josef, inz.

International standardization of plywoods. Normalizace 13 no.4:
132-136 Ap '65.

1. Office of Standardization and Measurement, Prague.

KLIČ, J.

N. D. Fosi's Electric Filters; a book review. p. 286

SDELOVACI TECHNIKA (Ministretvo strojirenstvi), Vol. 4, No. 9, Sept. 1956

Praha, Czechoslovakia

SOURCE: East European List (EEL) Library of
Congress, Vol. 6, No. 1, January 1957

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SLABOPHITY 187 18

Vol. 16, No. 12, Dec. 1974

REVIEWERS OF LITERATURE AT THE QUARTERS OF THE DIRECTOR
A discussion contribution to the paper by C. Kohlmann which appeared in
the journal *ibid.*, Vol. 16, No. 12, Dec. 1974

KLR

Distr: AE34/AE40

1968. PNEUMATIC RELAYS. I. INTRODUCTION

01.11.8

4/2

The results of an experimental investigation of pneumatic relays are reported. The samples were made of Nicholite-salt tubes having a width of 18 mm, thickness of 1.8 mm and length of 40 to 50 mm, and were provided with thin Al-foil electrodes and fixed to metal angles. The free ends of the tubes were furnished with small Pyralon disks which served as buffers for the contact springs. The relays were provided with four contacts based on standard spring sets. It was found that: (1) the operating speed of the relays was approximately the same as that of the corresponding electromagnetic relays; (2) power consumption of the relays was about 10% lower than that of electromagnetic devices; (3) mechanical and thermal properties of the relays were inferior to those of electromagnetic devices, but this could largely be overcome by using boron nitride tubes instead of Nicholite salt.

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R.L. Shrover

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Y

KLIR, J. ; SEIDL, L.

"Synthesis of a cybernetic model of the conditioned reflex." p. 37.

SLABOPROUDY OBZOR. (MINISTERSTVO PŘESNEHO STROJIRENSTVÍ, MINISTERSTVO SPOJU A VEDECKÁ TECHNICKÁ SPOLEČNOST PRO ELEKTROTECHNIKU PŘI CSAV.) Praha, Czechoslovakia, Vol. 20, no. 1, Jan. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.
Uncl.

KIIR, J.

"Bidirectional relay chains." P. 367.

SLABOPROUDY OBZOR. (Ministerstvo presneho strojirenstvi, Ministerstvo spoju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV).
Praha, Czechoslovakia, Vol. 20, No. 6, June 1959.

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

KLIR, J.; RISS, J.

"Terminology in the field of electronic computers." P. 103.

SLABOPROUDY OBZOR. (Ministerstvo presneho strojirenstvi, Ministerstvo spoju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV). Praha, Czechoslovakia, Vol. 20, No. 6, June 1959.

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

KLIR, Jiri, ins.

Solution of systems of Boolean equations. Aplikace mat 7, 1964, 265-271
162.

1. Vyskumny ustav matematickyh stroju, Dlouha 37, Praha 1.

KLIR, Jiri

"Relay computers" by Antonin Starka. Reviewed by Jiri Klir. Aplikace
mat 7 no.4:328 '62.

KLIR, Jiri

Weight codes. Stroje na sprac inf 8:155-162 '62.

1. Research Institute of Mathematical Machines, Prague.

KLIR, J., ins.

New standards for lumber. Poz stavby 11 no.1:50-52 '63.

1. Ustav pro normalizaci a mereni.

KLIR, Jiri

A note on Svoboda's algorithm for division. Stroj na
sprac inf 9:35-39 '63.

1. Research Institute of Mathematical Machines, Prague.

KLIR, Jiri; MIKULAS, Jiri

A study on equidistant codes and minimum distance codes.
Stroj na sprac inf 9:249-270 '63.

1. Research Institute of Mathematical Machines, Prague (for Klir). 2. Research Computing Center, Kancelarske stroje, n.p., Prague (for Mikulas).

L 57451-65 T/EED-2/ENP(1) Pq-4/Pq-4/Pj-4/PE-4 LIE(c) BR/CG
ACCESSION NR: AP3019299 CZ/0026/64/009/004/0306/0309

AUTHOR: Klir, Jiri (Klir, I.) (Candidate of sciences)

TITLE: Note on the theory of binary codes

412
41
B

SOURCE: Aplikace matematiky, v. 9, no. 4, 1964, 306-309

TOPIC TAGS: computer language, applied mathematics, encoding theory 16^c

ABSTRACT:

A binary code is defined by a sequence $\{A_k\}$ of binary numbers A_k with n places. The k -th binary digit of A_k is denoted by $a_{k,i}$. The number of terms in $\{A_k\}$ is called length of the code. Relations between n and maximal length are derived for codes which fulfill both the following conditions:

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ACCESSION NR: AP5019299

$$1. \dots a_{i,k} = a_i \text{ for } i = 1, 2, \dots, L-1, \text{ and for } k = 0, 1, \dots, n-2.$$

$$2. \sum_{k=0}^{n-1} |a_i - a_{i+k}| = p \text{ for } i = 1, 2, \dots, L-1.$$

For $p \neq n$, the maximal length of such codes is either $2n$ (for p odd) or n (for p even). Orig. art. has 7 formulas.

ASSOCIATION: Vyzkumny ustav matematickych stroju, Prague (Research Institute of Mathematical Machines)

SUBMITTED: 27Sep63

ENCL: 00

SUB CODE: DP, NA

NR REF SOV: 000

OTHER: 001

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Card 2/2

L 23926-66

A.C. NR: AT5027856

SOURCE CODE: CZ/2503/65/000/011/0135/0166

AUTHOR: Klir, Jiri; Hlavicka, Jan

17
B+1

ORG: Research Institute of Mathematical Machines, Prague

TITLE: Logical design of sequential asynchronous switching circuits

SOURCE: Ceskoslovenska akademie ved. Vyskumny ustav matematickych stroju. Stroje na spracovani informaci, no. 11, 1965, 135-166

TOPIC TAGS: switching circuit, internal code, linear graph, memory element

ABSTRACT: This paper contains a methodical approach to the logical design of sequential asynchronous switching circuits. All necessary steps in the design are described, but the main attention is concentrated on the assignment of an internal code. Logical features of memory elements are also discussed, and some practical results are contained in the paper. The behavior of a sequential asynchronous switching circuit may be represented by a linear graph. Two interpretations of the linear graph, namely a state diagram and a flow table, are used for the design. The procedure of the assignment of an internal code begins with an internal state diagram, all points of which are mutually different in respect to the corresponding states of memory elements. In order to prevent a race of memory elements, it is prescribed that each line of any internal state diagram always represents a change of only one memory element. The number of lines belonging to the shortest path between two points

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ACC NR: AT5027856

u and v of an internal of an internal state diagram defines the element c_{uv} of the matrix of changes, from which several matrices of distances of the internal code sought may be derived. The question of realizability of a matrix of distances is studied, and two ways of designing an internal code are introduced: a linear-programming approach and marti-comparison method. Some bounds for the number of memory elements are also contained in the paper. The complete design of sequential asynchronous switching circuits is illustrated by several examples. Orig. art. has: 12 figures, 21 tables, and 16 formulas. [Author's abstract] [XB]

SUB CODE: 09/

SUBM DATE: 18Jan64/

ORIG REF: 004/

SOV REF: 005/

OTH REF: 017/

Cord 2/2 PK

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Characteristic values of computers. Automatizace 6 no.11:284
N '63.

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KLIR, Jaroslav, inz. dr.

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126-127 '63.

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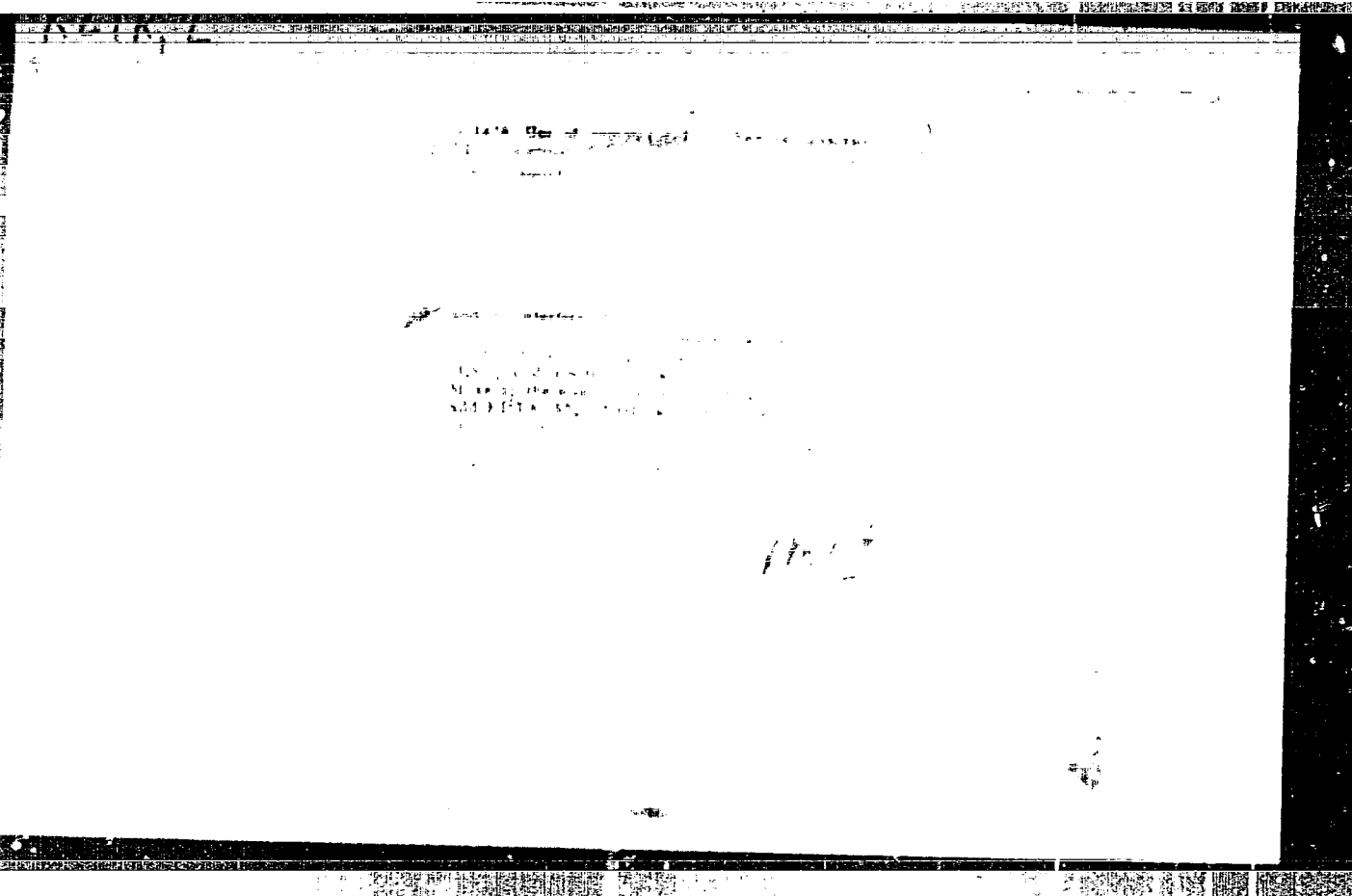
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KLIR; LADISLAV

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Inorganic Substances.

E-2

Abstr Jour : Ref Zhur - Khim., No 10, 1958, No 32165

Author : Karel Liskn, Ladislav Klir

Inst : -

Title : Use of Anion Exchanger in Analytical Chemistry. I. Sorption of Chloride Complexes of Some Metals on Anion Exchanger Q.L. II. Separation of Little Amounts of Cobalt from Nickel. III. Separation of Little Amounts of Pb, Zn, Cd, Sn and Bi from Cu, Co and Fe.

Orig Pub : Chem. listy, 1957, 51, No 8, 1467-1470; 1547-1548; 1549-1550.

Abstract : I. The applicability of the strongly alkaline anion exchanger QAL (I) made in Czechoslovakia, the functional group of which is a 4-fold bound N, to the analytical separation of metal cations was investigated. The elution constants (EC)

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Abstr Jour : Ref Zhur - Khim., No 10, 1958, No 32185

of I in respect to Ni^{2+} , Mn^{2+} , As^{5+} , Co^{2+} , Cu^{2+} , Zn^{2+} , Pb^{2+} , Pb^{2+} , Cd^{2+} , Bi^{3+} and Sn^{4+} in 0.1 to 12 M HCL were determined. For this purpose, the volume of the eluent (HCL), which was necessary to let through I until the first traces of the corresponding metal would appear in the eluate, was measured, and this volume was referred to 1 mlit of I. The EC-s received in this way for various metals differ one from another, which makes it possible, for example, to separate Co from Ni, or Pb, Zn, Cd, Sn and Bi from Cu, Fe and Co. Should the differences among the EC magnitudes of metals to be separated be little, the separation would be repeated several times. In some cases, the EC magnitudes of I differ considerably from corresponding EC magnitudes of other ion exchangers, for example, dowex-1, wofatito L 150. The comparatively little

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Abs Jour : Ref Zhur - Khim., No 10, 1958, No 32165

mechanical strength of I is its disadvantage.

II. The possibility of separating Co from Ni using I was investigated. The greatest difference between the EC-s of Co (0.046 to 0.039) and Ni (1.10 to 1.29) is observed in 9 to 12 M HCl. The method developed by the authors is suitable for the separation of little amounts of Co from Ni; many cations sorbing together with Co on I (Pb^{3+} , Cu^{2+} , Pb^{2+} , Zn^{2+} , Cd^{2+} , Sn^{4+} and others) interfere with the separation. The sample to be analyzed in the shape of chlorides with a maximum content (- 10 mg) of Ni is dissolved in 1 mlit of concentrated HCl and the obtained solution is passed at the rate of about 1 mlit per min. through a microcolumn, capacity about 2 mlit, with I, which has been first washed with concentrated hydrochloric acid. After that the column is washed with concentrated HCl solution (10 mlit) until the reaction

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Inorganic Substances.

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Abs Jour : Ref Zhur - Khim., No 10, 1958, No 32165

of Ni^{2+} with dimethylglyoxime is negative, and Co^{2+} is eluted from I with 10 mlit of water. The Co content in the eluate is determined photometrically using α -phenylmonoxime or α -nitroso- β -naphthol.

III. A method of separating little amounts of Pb^{2+} , Zn^{2+} , Cd^{2+} , Sn^{4+} and Bi^{3+} from excessive amounts of Cu^{2+} , Co^{2+} or Fe^{3+} using I was developed. 0.5 to 3 M HCl is a suitable medium for the separation, because neither Cu^{2+} , nor Co^{2+} , nor Fe^{3+} sorb on I in it. The solution of chlorides of metals to be separated in 1 M HCl is passed through a column with 20 cub.cm of I, which was previously washed with 1 M HCl solution, and I is washed with 1 M HCl solution, until the reactions for Cu^{2+} (with benzoinoxime), for Co^{2+} (with murexide) and for Fe^{3+} (with KSCN) become negative. After

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Inorganic Substances.

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Abs Jour : Ref Zhur - Khim., No 10, 1958, No 32165

that the cations sorbed on I are successively eluted with 100 mlit of the corresponding reagent, viz.: Pb^{2+} , Zn^{2+} and Sn^{4+} with 0.1 M HCl solution, Cd^{2+} with water, and Bi^{3+} with 5% aq HNO₃. Zn^{2+} , Cd^{2+} and Pb^{2+} in the eluate are determined complexometrically, Sn^{4+} is determined photometrically with quercetin, and Bi^{3+} is determined also photometrically with thiourea. This method is especially suitable for the simple separation of Zn from Cd and permits to determine traces of Cd (0.0006%) in metallic Cu.

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CZECHOSLOVAKIA / Analytical Chemistry. Analysis of
Inorganic Properties. E

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130013-

Abs Jour: Ref Zhur-Khimiya, No 19, 1958, 64163

Author : Liska K, Klir L
Inst : Not given
Title : The Use of Anion Exchanges in Analytical Chemistry. I. Sorbtion of Chloride Complexes of Some Metals in Anion Exchange OAL.

Orig Pub: Collect. Czechosl. chem. communs., 1958, 23,
No 3, 438-441

Abstract: See RZhKhim, 1958, 32165.

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A study of the polymer electrolyte membrane is de-
scribed. It consists of a porous Pt electrode, a silver
electrode and an ion-exchange resin of a polyelectrolyte.
The potential drop is measured by means of a computer.
M. Hoshino

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(Vestnik, Vol. 32, no. 1, 1957. Praha, Czechoslovakia)

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p.86 (Vestnik, Vol. 33, no. 2, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 8, August 1958

COUNTRY : CZECHOSLOVAKIA
CATEGORY : Cosmochemistry. Geochemistry. Hydrochemistry^D
AB. JOUR. : RZhKhim., No 17, 1959, No. 60416
AUTHOR : Demoir, J.; Elir, S.
INSTITUTE : -
RTLE : Mineral Water of the Bishta Health Resort in
Czechoslovakia
ORIG. PUB. : Vest. Ustred. ustavn geol., 1958, 33, No 5,
361-363
ABSTRACT : Mineral water springs of the Bishta health re-
sort located near Slovensko Novo Mesto emerge
from a fault of the tectonic contact with neo-
genic rhyolites and their tuffs with crystalline
substrata. This water is hydrocarbonate-chlorido-
-nitric mineral content of 1.62-2.16 gr/l.
Ionic composition analyses are presented.
-- V. Krasintseva.

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