

DOMANSKIY, B. I., Prof

USSR/Electricity - Power Systems
Automatic Control
Literature

Nov 51

"Review of I. I. Solov'yev's Book 'Automatic Control of Electric Power Systems,' " Prof B. I. Domanskiy, Leningrad

"Elektrichestvo" No 11, pp 93-95

Favorable review of subject book, which includes material on automatic reserve pooling of equipment, automatic repeated reclosing of feeder and trunk lines, automatic regulation of voltage and frequency, automatic emergency

201770

USSR/Electricity - Power Systems
(Contd)

Nov 51

unloading of the system, and a very brief discussion of magnetic amplifiers and amplidyne. Published by Gosenergoizdat, 1950, 500 pp, R 17.75.

201770

DOMANSKIY, B. I.

USSR/Electricity - Scientists

Feb 53

"Professor A. M. Zalesskiy (In Connection with His 60th Birthday)," M. A. Shatelen,
L. P. Newman, M. P. Kostenko, I. A. Zaytsev, Ye. G. Shramkov, M. D. Kamenskiy,
B. I. Kamenskiy, B. I. Domanskiy, V. A. Belyakov, V. T. Renne, V. P. Andreyev,
L. M. Piotrovskiy, B. N. Mikhalev, G. A. Kukekov, Yu. A. Sabinin

Elek-vo, No 2, p 94

Recounts chief events in professional life of Prof Aleksandr Mikhaylovich Zalesskiy,
born 27 Nov 1892. Long active in field of high-voltage techniques, he has been Chairman
of Administrative Board of VNITOE since 1945.

PA 248T29

LIEMANSKIY, B.I.

621.316.728.728 ; 621.111.161
3207. Power and frequency regulation of large power
grids. B. I. LIEMANSKIY AND E. I. YUREVICH. *Elek-
tricheskoye stroitel'stvo*, 1954, No. 2, 3-7. In Russian.
Investigates the method of regulating the frequency,
exchange power and time in a large interconnected

power system or grid, based on the phase angle of the
voltage vector at a given nodal point of the system
referred to the voltage vector of a standard frequency.
This standard frequency may be propagated from a
dispatcher's point and the phase angles at generator
aximuths, station busbars, line ends and main
branching points of the system may be kept constant
or varied according to the relations between generated
and exchanged powers. The possibility of using this
method for regulating the transmitted power is based
on the well-known relation between the transmitted
power and the phase difference of the voltage vectors
at the sending and receiving end, respectively, of a
line. Particular attention is devoted to clarifying
transient processes in tie-lines in systems with lumped
parameters (because the influence of such processes
in systems with distributed parameters is generally
negligible), this mainly applying to systems supplied
by turbo-alternators. The second case considered
refers to systems in which the elements with distributed
parameters cannot be neglected during transient
periods; this applies to hydro-electric stations with
long penstocks. An experimental arrangement for
such investigations is described and some results are
presented.
B. F. KRAUS

57

AID P - 3268

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 23/25

Authors : Naryshkin, I. I., M. A. Shatelen, L. R. Meyman, A. M. Zalesskiy,
B. I. Domanskiy, S. V. Usov, V. T. Renne, I. A. Zaytsev, and
others

Title : Professor M. D. Kamenskiy. His 70th birthday and 45 years of
scientific and educational activity

Periodical : Elektrichestvo, 9, 84-85, S 1955

Abstract : The authors pay tribute to Prof. M. D. Kamenskiy's scientific
and educational activity and present a short biographical sketch
and description of his activities.

Institution : None

Submitted : No date

Card 2/2

8 (6)

S07/112-57-5-10128

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 5, p 77 (USSR)

AUTHOR: Domanskiy, B. I., Romanov, V. A., Potapov, B. I.

TITLE: Problems in Development of Electrohydraulic Speed Control Systems for Hydraulic Turbines (Voprosy razrabotki sistem elektrogidravlicheskogo regulirovaniya skorosti gidroturbin)

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1956, Nr 184, pp 361-365

ABSTRACT: Interconnected power system operation requires a number of automatic control devices to increase economy and reliability; the devices must affect the turbine torque by resetting mechanical speed governors. Growing requirements of the precision of frequency control and load distribution involve allowances for many factors. Specifically, hydraulic-turbine governors must respond to changes in water conditions. In this connection, the adoption of electric sensing units is natural, as they simplify introducing stabilizing means into the control system. The pickups using simple frequency-dependent

38.

SOV/112-57-5-10128

Problems in Development of Electrohydraulic Speed Control Systems for

circuits have proved the most suitable; specifically, parallel resonant circuits that ensure necessary sensitivity in a broad band of velocity variation (80-130% of the rated velocity) are the most suitable. Resetting of such circuits can be made by changing the inductance of a reactor by additional magnetizing current or by applying appropriate voltages to the circuit. One of the circuit diagrams is presented. Plunger-type and transverse-movement type electromagnets can be used as final control elements.

V.G.D.

GUBENKO, T.P.; DEVIATKOV, N.D.; DOMANSKIY, B.I.; DONSKOY, A.V.; YEFREMOV,
I.S.; ZHEZHERIN, R.P.; KAGANOV, I.L.; MANDRUS, D.B.; NETUSHIL,
A.V.; PODGURSKIY, Ye.L.; ROZENFEL'D, V.Ye.; SVENCHANSKIY, A.D.;
CHUKAYEV, D.S.; SHLYAPOSHNIKOV, B.M.

Professor G.I. Babat; obituary. Elektrichestvo no.1:94 Ja '61.
(MIRA 14:4)

(Babat, Georgii Il'ich, 1911-1961)

DOMANSKIY, B.I., prof.; SIDEL'NIKOV, V.V., kand.tekhn.nauk; LEVIT, G.O., inzh.

"Fundamentals of the operational control of electric power systems"
by A.K.Darmanchev. Reviewed by B.I.Domanskii, V.V.Sidel'nikov,
G.O.Levit. Elek.sta. 32 no.8:95-96 Ag '61. (MIRA 14:10)
(Electric power distribution) (Electric power production)

BEISSONOV, L.A.; DCMANSKIY, B.I.; DROZDOV, N.G.; D'YACHENKO, N.Kh.;
ZHEKULIN, L.A.; ZAYTSEV, I.A.; ZALESSKIY, A.M.; KAMENSKIY, M.D.;
KOSTENKO, M.P.; LEBEDEV, A.A.; LOMONOSOV, V.Yu.; MITKEVICH, A.V.;
SMIRNOV, V.S.; TOLSTOV, Yu.G.; USOV, S.V.; SHRAMKOV, Ye.G.

L.R. Neiman; on his 60th birthday and the 35th anniversary of
his educational work. Elektrichestvo no.6:93-94 Je '62. (MIRA 15:6)
(Neiman, Leonid Robertovich, 1902-)

AYZENBERG, B.L.; ALFKSANDROV, G.N.; GRIBOV, A.N.; GRUZDEV, I.A.; DOMANSKIY, B.I.;
DUBINSKIY, L.A.; ZALESKIY, A.M.; KOSTENKO, M.P.; KOSTENKO, M.V.;
LEVINSHTFYN, M.L.; MIKIRTICHEV, A.A.; MIKHAYLOVA, V.I.; NEYMAN, L.R.;
RUZIN, Ya.L.; SMIRNOV, V.S.; STEFANOV, K.S.; USOV, S.V.; KHOBERG, V.A.;
SHCHERBACHEV, O.V.

Professor M.D.Kamenskii; on his 80th birthday. Elektrichestvo no.7;
92-93 J1 '65. (MIRA 18:7)

SOTSKOY, Boris Stepanovich. DOMANSKIY, B.I., prof., doktor
tekh. nauk, retsenzent; KOLOSOV, S.P., prof., doktor
tekh. nauk, retsenzent; NEFEDOVA, V.I. dots., kand.
tekh. nauk, red.

[Principles of the calculation and design of electro-
mechanical components of automatic and remote control
systems] Osnovy rascheta i proektirovaniia elektromekhanicheskikh elementov avtomaticheskikh i telemekhanicheskikh ustroystv. Moskva, Energiia, 1965. 575 p.
(MIRA 18:9)

SMIRNOV, V.S.; KOSTENKO, M.P.; NEYMAN, L.R.; KOSTENKO, M.V.; DOMANSKIY,
E.I.; ZALESSKIY, A.M.; USOV, S.V.; AYZENBERG, B.L.; DUBINSKIY,
L.A.; ALEKSANDROV, G.N.; GRIBOV, A.N.; GRUZDEV, I.A.; LEVINSHTEYN,
M.L.; MIKIRTICHEV, A.A.; MIKHAYLOVA, V.I.; RUZIN, Ya.L.; STEFANOV,
K.S.; KHOBERG, V.A.; SHCHERBACHEV, O.V.

M.D. Kamenskii; on his 80th birthday. Izv. vys. ucheb. zav.;
energ. 8 no.7:130-131 J1 '65. (MIRA 18:9)

VOL'DEK, A.I.; DOMANSKIY, B.I.; DRANNIKOV, V.S.; ZALESSKIY, A.M.;
KAMENSKIY, M.K.; KANTAN, V.V.; KASHKAROV, G.Ye.; KIZEVETTER, Ye.I.;
KLIMOV, A.N.; KOVALEV, N.N.; KOSTENKO, M.P.; KOSTENKO, M.V.;
NEYMAN, L.R.; PAVLOV, G.M.; RAVDONIK, V.S.; RUZIN, Ya.L.;
SIDOROV, M.M.; SHRAMKOV, Ye.G.

Professor Sergei Vasil'evich Usov, 1905- ; on his 60th birthday.
Elektrichestvo no.11:86 N '65. (MIRA 18:11)

L 22149-66

SOURCE CODE: UR/0143/65/000/007/0130/0131

ACC NR: AP6012968

AUTHOR: Smirnov, V. S.; Kostenko, M. P.; Neyman, L. R.; Kostenko, M. V.;
Domanskiy, B. I.; Zalesskiy, A. M.; Usov, S. V.; Ayzenberg, B. L.; Dubinskiy, L. I.;
Aleksandrov, G. N.; Gribov, A. N.; Gruzdev, I. A.; Levinshteyn, M. L.;
Mikirtichev, A. A.; Mikhaylova, V. I.; Ruzin, Ya. L.; Stefanov, K. S.;
Knoberg, V. A.; Shcherbachev, O. V.

ORG: none

TITLE: Honoring the 80th birthday of Mikhail Davidovich Kamenskiy

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Energetika, no. 7, 1965, 130-131

TOPIC TAGS: electric power engineering, electric engineering personnel,
hydroelectric power plant, thermoelectric power plant

ABSTRACT: On 19 April 1965 Prof. Dr. Techn. Sci. Mikhail David-
ovich Kamenskiy celebrated his 80th birthday and the 55th anni-
versary of his active work as a power expert. Mikhail Davidovich
is a 1909 graduate of the Petersburg Polytechnic Institute - since
his graduation he has been associated with this institute, now
renamed Leningrad Polytechnic Institute, as an instructor. He is
a major scientist and specialist in electric power grids and sys-
tems. He has been a major contributor to the establishment of
the Leningrad Power Grid and various large thermal and hydro-

L 22149-66

ACC NR: AP5012968

electric power stations and an active participant in the design and construction of high- and low-voltage power systems in many cities of the Soviet Union. During the Siege of Leningrad in World War II he was a member of the Municipal Party Defense Committee. Since the war Mikhail Davidovich has been head of the Chair of Electric Power Grids and Systems at the Leningrad Polytechnic Institute and has been working on the methods of calculating the economic regimes of power system operation and on the problems of the present-day development of urban power systems. M.D. Kamenskiy has published more than 80 works, including both original studies as well as textbooks that are popular in the Soviet Union and abroad. He is the chairman of the Section on Power Systems and Grids under the Leningrad Division of the Scientific and Technical Division of the Power Industry and organizer of and participant in many scientific-technical conferences and meetings. His merits as an educator of a new school of Soviet power engineers are equally large. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 10 / SUBM DATE: none

Cercl 2/2 ddo

DOMANSKIY, B.V.

Method of skeletal traction in fractures of the femur in children.
Ortop., travm. i protez. 25 no.5:41-43 My '64. (MIRA 18:4)

1. Iz kafedry khirurgii detskogo vozrasta (zav. - prof. A.R. Shurinok) Kiyevskogo meditsinskogo instituta na baze khirurgicheskogo otdeleniya Kiyevskoy detskoy gorodskoy spetsializirovannoy bol'nitsy (glavnyy vrach - T.P.Novikova). Adres. avtora: Kiyev, Vozdukhoflotskoye shosse, d.28, Detskaya bol'nitsa khirurgicheskoye otdeleniye.

DOMANSKIY, E.I.; MOSKOV, M.M.

Autocollimation method for determining the optical constants of
metals. Fiz. met. i metalloved. 1 no.3:567 '55. (MLRA 9:6)

1.Ural'skiy gosudarstvennyy universitet imeni A.M.Ger'shego.
(Metals--Optical properties) (Optical measurements)

DOMANSKIY, L. K.

USSR/Engineering - Hydraulics, Power
Stations

May 52

"Overflow Diversion-Type Hydroelectric Power Sta-
tion," A. A. Korolev, Cand Tech Sci, L. K. Doman-
skiy, Engr

"Gidrotekh Stroit" No 5, pp 36-38

Discusses method for use of river when high waters
flood power-station buildings. Says arrangement
permits concrete overflow weir in river bed to be
replaced by earth dam, thus reducing cost of con-
struction works. States that powerhouse was de-
signed in 2 variations, illustrating both by
drawings.

230T17

DOMINSTEIN, L.K.; FLECHNER, H.V.

Main design and structural features of the dam of the Krasnoyarsk
Hydroelectric Power Station. Trudy Lengidroproekta no.1:5-20 '64.
(MIRA 18:10)

DOMANSKIY, L.N., inzh.

The OPP-5.0 earcorn cleaner. Trakt. i sel'khoz mash. no.2:40
F '64. (MIRA 17:3)

1. Spetsial'noye konstruktorskoye byuro Khersonskogo kombaynovogo zavoda.

VASIL'YEV, Yu.S., dots., kand. tekhn. nauk; VEL'NER, Kh.A., dots.,
kand. tekhn. nauk; GINDUS, D.O., inzh.; GOLOVACHEVSKIY,
N.I., dots., kanl. tekhn. nauk; GROMOV, A.I., inzh.;
DOMANSKIY, L.K., inzh.; ISAYEV, Yu.M., inzh.; KULESH, N.P.,
dots., kand. tekhn. nauk; MIKHALEV, B.N., dots., kand.
tekhn. nauk; MOROZOV, A.A., prof., doktor tekhn. nauk
[deceased]; NALIMOV, S.M., st. nauchn. sotr., kand. tekhn.
nauk; REZNIKOVSKIY, A.Sh., kand. tekhn. nauk; SVANIDZE, G.G.,
doktor tekhn. nauk; TANANAYEV, A.V., dots., kand. tekhn. nauk;
KHAZANOVA, A.Z., inzh.; CHERNYATIN, I.A., st. nauchn.
sotr., kand. tekhn. nauk; SHCHAVELEV, D.S., prof., doktor
tekhn. nauk; YAGODIN, N.N., st. nauchn. sotr., kand. tekhn.
nauk; LEONOVA, B.I., red.

[Utilization of water power] Ispol'zovanie vodnoi energii.
Moskva, Energiia, 1965. 563 p. (MIRA 19:1)

DOMANSKIY, L.TS., inzh.; MEL'NIKONIS, A.A., inzh.

Garrying out earth and rock moving operations in s'cond sequence
foundation pits. Energ. stroi. no.41:27-31 '64. (MIRA 17:11)

DOMANSKIY, R.

Research on the reaction of spring barley to droughts. Fiziol.
rast. 6 no.3:347-348 My-Je '59. (MIRA 12:8)

1. Department of Plant Physiology of Agricultural Academy, Poznan.
(Barley) (Plants, Effect of aridity on)

RENDOSH, F. [Rendos, F.]; DOMANSKIY, R.; KOZMAL, F.; ZELNIK, A.; PAYTIK, I.

Production of furfurole and acetic acid by means of low-temperature
pyrolysis of sawdust in a fluidized bed. *Gidroliz. i lesokhim. prom.*
17 no.7:12-13 '64. (MIRA 17:11)

1. Slovatskaya akademiya nauk (for Rendosh, Domanskiy, Kozmal).
2. Slovatskiy politekhnicheskiy institut (for Zelnik). 3. Zavod
'Buchina" (for Pavtik).

DOMANSKIY, V.I. [Domans'kyi, V.I.]; ZHURAVSKIY, L.I. [Zhuravs'kyi, L.I.];
KISEL', I.M. [Kysil', I.M.]; KUPERMAN, I.S.

Methods for the measurement and regulation of gas filling of
ideal mixing apparatus. Khim.prom. [Ukr.] no.1:72-77 Ja-Mr
'64. (MIRA 17:3)

DOMANSKIY, V. Ye.

"Influence of production work specifications in grouping Hydronode causeway dams."

Dissertation for Candidate of Technical Sciences, Leningrad Polytechnical Institute
im. Kalinin (LPI)

Subject: Hydroengineering building and construction

SO: Gidrotekhnicheskoye, stroitel'stvo, 12, 1946.

DOMANSKIY, V. YE.

PA 197744

USSR/Engineering - Hydraulic Engineer - Mar 51
Ing, Materials

"Surface Hardening of Concrete Structures and Its
Depth," V. Ye. Domanskiy, Cand Tech Sci

"Gidrotexh Stroi" No 3, pp 13-16

Describes method for improving the surface layer
of concrete, i.e., increasing its density and
strength, with the aid of water-absorbing lining
of concrete molds. Effect of water absorption by
lining extends into concrete up to 10-12 cm and
creates a more watertight and frost-resistant

197744

USSR/Engineering - Hydraulic Engineer - Mar 51
Ing, Materials (Contd)

layer. Expts were conducted in laboratories of
VNIIG and presently the method is being tested
under industrial conditions.

197744

DOMANSKIY, V.Ye., inzhener.

Experience in building a large earthfill dam. Gidr.stroi.23 no.1:
10-13 '54.

(MLRA 7:2)

(Name)

DOMANSKIY, Vitaliy Yefimovich; prof.; KORNILOV, A.M., red.; BORUNOV,
H.I., tekhn.red.

[Construction of the Mingechar complex of hydroelectric
structures; Mingechar and Varvarovka Hydroelectric Centers]
Stroitel'stvo Mingecharakogo kompleksa gidrotekhnicheskikh
sooruzhenii; Mingecharskii i Varvarinskii gidrouzly. Moskva,
Gos.energ.isd-vo, 1960. 207 p. (MIRA 14:1)
(Mingechar Hydroelectric Power Station)
(Varvarovka Hydroelectric Power Station)

DOMANSKIY, V. Ye.

Results of constructing the dam of the Mingechar installation. Dokl. AN Azerb. SSR 16 no.1:23-27 '60. (MIRA 13:6)

1. Institut energetiki AN Azerbaydzhanskoy SSR. Predstavleno akad. AN Azerbaydzhanskoy SSR M.A. Kashkayem.
(Mingechar Reservoir--Dam)

DOMANSKIY, V.Ye., prof.; SHUVAYEV, V.S., dotsent; ARNGOL'D, A.V.

"Design and operation of a tailings storage department of an ore dressing plant" by P.D.Evdokimova. Reviewed by I.A.A. Rubinchik. Remarks on the book review by V.E.Domanskiy, V.S. Shuvaev, A.V.Arngol'd. Reviewers' response. Tsvet.met., 35 no.12:73-77 D '62. (MIRA 16'2)

1. Kuybyshevskiy inzhenerno-stroitel'nyy institut (for Domanskiy).
2. Kuybyshevskiy inzhenerno-stroitel'nyy institut (for Shuvayev).
3. Vsesoyuznyy institut po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva (for Arngol'd).
(Tailings (Metallurgy)) (Evdokimova, P.D.)

KALISH, Semuil Ionovich; NAYDENKO, Ivan Semeyevich; KONSTANTIN, Ivanovich; SUFROV, Vitaliy Fedorovich;
CHAYKA, Boris Nikolayevich; PETKOV, Aleksandr Ivanovich;
BORANSKIY, Yuzef Gilyar'yevich; KALASHOV, S.I., consultant

[Assembly, operation, and repair of hoisting equipment]
Montazh, ekspluatatsiya i naladka podzemnykh ustanovok.
[By] S.I. Kalish i dr. Moskva, Nedra, 1961. 220 p.
(MIRA 18:5)

DOMANSKIY, Yuliy Ivanovich, inzh.; LEVCHENKO, Ya.V., inzh., red.;
KUBNEVA, M.M., tekhn.red.

[The SMP-1 pyrotechnical pistol for fixing electric wiring
to construction elements] Pirotekhnicheskii pistol SMP-1
dlia zabivki elektromontazhnogo krepesha v stroitel'nye
konstruktsii. Leningrad, Leningr.dom nauchno-tekhn.propa-
gandy, 1958. 11 p. (Informatsionno-tekhnicheskii listok,
no.25. Stroitel'naya promyshlennost') (MIRA 12:8)
(Electric wiring--Equipment and supplies)

DOMANSKIY, Yuliy Ivanovich; BOGDANOVA, Zorya Nilovna; YEVSEYEV,
R.Ie., red.

[Hand mandrels for driving-in dowels in the installation
of electrical wiring and electrical equipment] Ruchnye
opravki dlia zabivaniia diubelei pri montazhe elektro-
provodok i elektricizdelii. Moskva, Energiia, 1964. 19 p.
(Biblioteka elektromontera, no.130) (MIRA 17:12)

DOMANSKY, D.; JIRKU, J.

Surge stresses of high-voltage distributing transformers at chopped surge waves.
p. 472

ELEKTROTECHNICKY OBZOR . (Ministerstvo tezkoho strojirenstvi a
Ceskoslovenske vedecka technicka spolecnost pro elektrotechniku pri
Ceskoslovenske akademii ved) Praha, Czechoslovakia. Vol. 48, no. 9, Sept. 1959.

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

Uncl.

DOMANSKY, Eduard

Research on the operational conditions of diesel engines
using propane-butane fluid gas. Ropa a uhlie 5 no. 9:284-287
S '63.

1. Ceskoslovenske zavody naftovych motoru, Research Institute
of Naphtha Motors, Frague.

DOMANSKY, E.

"Omnivorous" diesel motors. ~~Tecnika~~ 7 no.4:2 Ap '63.

DOMANSKY, K., Primar Dr.

Vagotomy in peptic ulcer persisting following gastric surgery.
Cas. lek. cesk. 91 no.27:804-806 4 July 52.

1. Z chirurgického oddeleni nemocnice KUNZ v Ceskych Budejovicich.
(PEPTIC ULCER, surgery,
vagotomy in ulcer persisting after gastrectomy)
(NERVES, VAGUS, surgery,
vagotomy in peptic ulcer persisting after gastrectomy)

DOMANSKY K.
EXCERPTA MEDICA Sec.14 Vol.11/3 Radiology Aug57.

1343. DOMANSKÝ K. and TOMEČKA M. Chir. Odd. a Tuberk. Odd., Českých Bu-
dějovicích. Méně časté nádory mezihrudní. Less frequent mediasti-
nal tumours ROZHL. TUBERK. 1956, 26/8 (409-413) illus. 8

The following unusual tumours of the mediastinum were removed by surgery: cystic fibroma, which originated from the pericardium, an aberrant struma in the anterior mediastinal space with malignant degeneration, a parasternal liparocoele, a neurinoma of the anterior mediastinum, one chondroma in the anterior and one in the posterior mediastinum and a sarcoma. The experience of the authors shows that in any case of mediastinal tumour an operation has to be performed early because these tumours do not respond favourably to radiation. Radiation has only a significance for differential-diagnostical purposes. The patient with sarcoma of the anterior mediastinum is well and without metastases 4 yr. after surgery.

Boehm - Isny (XV, 5, 9, 14, 16)

~~DOMANSKY, K.~~

Complications of retroganglionic neurectomy according to Dandy. Czech.
neur. 20 no.4;219-224 June 57.

1. I chirurgika klinika lékařské fakulty KU se sídlem v Praze, přednáška
doc. Dr. K. Domanský.

(TRIGEMINAL NEURALGIA, SURG.

retroganglionic neurectomy, Dandy method, Czech. (20)

DOMANSKY, Karel; HOLIK, Frantisek; LINHARTOVA, Alena

Pseudocysts of the thymus. Rozhl. chir. 40 no.7:483-488 JI '61.

1. I chirurgicka klinika, prednosta doc. dr. K. Domansky centralni
rtg oddeleni, prednosta doc. dr. F. Holik Siklur patologicke-anato-
micky ustav lekarske fakulty University Karlovy v Plzni, prednosta
prof. dr. J. Vanek.

(THYMUS GLAND dis)

Domansky, L.

AGRICULTURE

COMPEL, J.; DOMANSKY, L. ; PANES, D.

Analysis and economic evaluation of building of building and construction

investments from the point of view of vertical and horizontal arrangement of

storage rooms. p. 947.

Vol. 31, no. 12, Dec. 1958.

Monthly Index of East European Accessions (EMAI) LC, Vol. 8, No. 4, April 1959

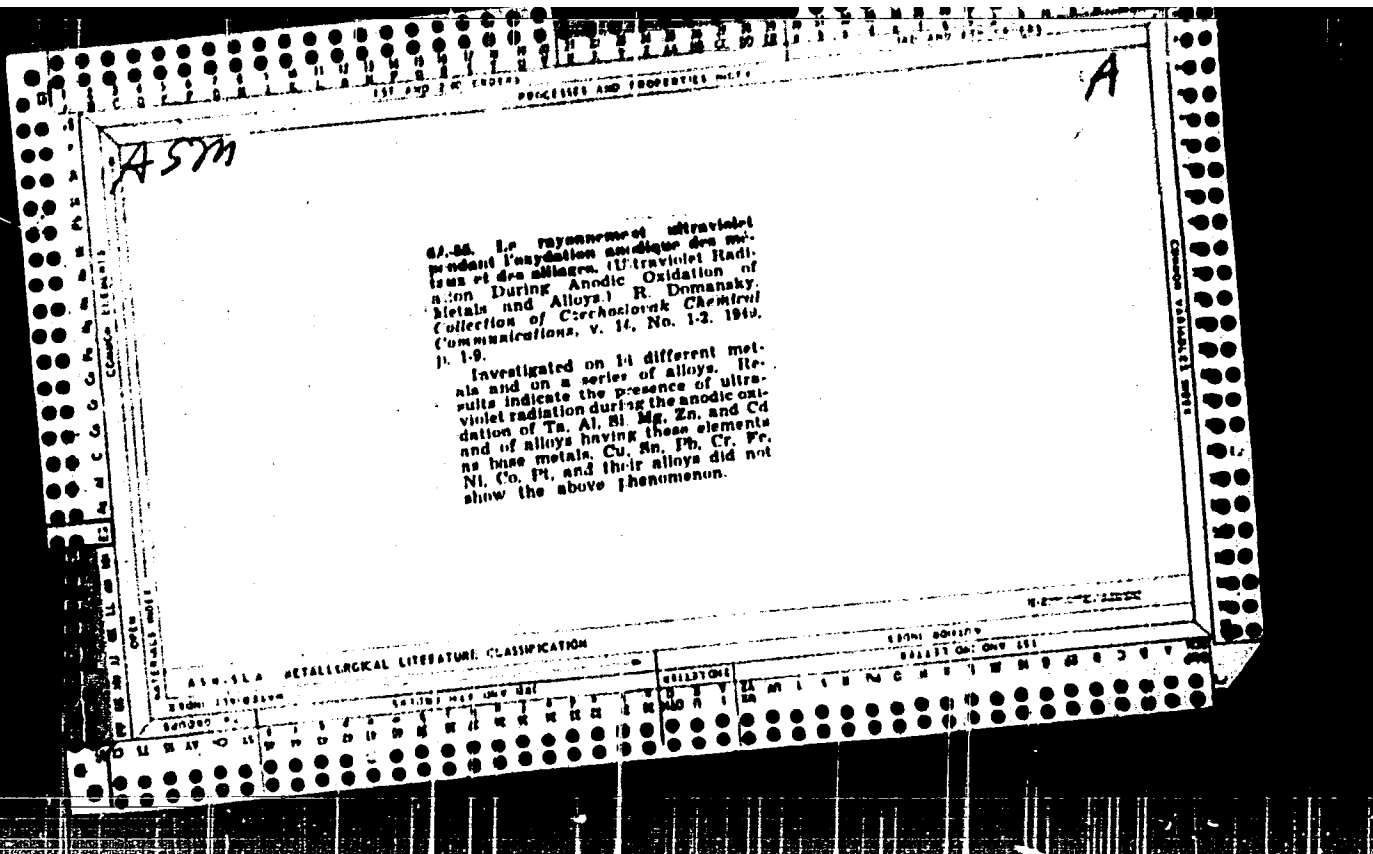
VELEBIL, M., inz.; KOLAR, K., inz.; DOMANSKY, M., inz.; SOUHRADA, J., inz.

Main trends in the complex mechanization of cattle and swine breeding. Zemedel tech 9 no.3:221-238 Je '63.

1. Vyzkumny ustav zemedelske techniky, Repy u Prahy.

DOMANSKY, R.

"Theory and applications of ultraviolet spectroscopy" by H.H. Jaffe, M. Orchin. Reviewed by R. Domansky. Chem zvesti 18 no.2: 155 '64.



5.

H. A.

On the Effect of Electrolytic Concentration on the Generation of Ultra-Violet Rays During Anodic Oxidation of Aluminium. R. Domansky (Coll. Trav. Chim. Tchecoslov., 1949, 14, (8/10), 441-444).--(In French). The intensity of the ultra-violet rays which appear during anodic oxidation of aluminium decreases with lower electrolyte concentration (< N/750). It is suggested that this is due to the absence of formation of oxide films.--V.K.

DOMANSKY, R.

DOMANSKY, R. and BERGER, V. "Analytic tracing of the process of formaldehyde and phenol condensation." p. 441. (Vol. 5, no. 8, Oct. 1951. Chemické Zvesti. Bratislava.)

SO: Monthly List of East European Accessions, Vol. 3, No. 6, Library of Congress, June 1954.
Uncl.

DOMANSKY, R.

24(2,4) PHASE I BOOK EXPLORATION CZECH/2433

International Polarographic Congress, 1st, Prague, 1951
Sbornik I. Mezinarodni polarografickeho sjezdu. Díl 3: Hlavní referaty předneseny na sjezdu. Proceedings... Part 3: Reviews Read at the Congress. Prague, Přírodovědecké vydavatelství, 1952. 774 p. 2,000 copies printed.

Resp. Ed.: Jiří Koryta, Doctor; Chief Ed. of Publishing House: Milan Škaldík, Doctor; Tech. Ed.: Oldřich Džmík.
The book is intended for chemists, chemical engineers, and physicists.

COVERAGE: The book is a collection of reviews and original papers read at the International Polarographic Congress held in Prague in 1951. It covers polarography in organic and inorganic analysis, biochemistry, and medicine, and industrial chemistry are discussed. In the section, Russian and industrial chemistry are discussed, either German or English texts in the Congress, Russian and German texts of each review are presented. Original papers read at the Congress, only those translations in Russian, German, and English which have not been published in Volume I are presented. The following scientists participated in the opening of the Congress: Professor Viktor Kemula, Dean of the Faculty of Sciences, Warsaw; Doctor Jaromír Dolanský, Minister of Planning; Professor Jaroslav Herovský, Minister of the Congress; and Professor Jaroslav Fušátek, Chairman of the Center for Scientific Research and Technical Development. References follow each paper.

Škaldík, M. Polarographic Study of the Degradation of Glucose By Alkalies [Russian Translation] [German Translation]	512 516 518
Ruman, F. Reactions of Carbonyl Compounds With Primary Amines	530
Ručný, L. Polarographic Determination of Cyanuric Acid, Cyanamide, and Rubenhydride	530
Platícha, J. Some Complexes of Amino Acids With Metals [Russian Translation] [German Translation]	534 536 539
Moubel, J., and J. Zárzál. Polarographic Determination of Phenol in Water and Urine	542
Domansky, R. Use of Polarography for the Determination of Yeast in Cellulose	546

Card 8/14

DOMANSKY, RADISLAV

Czech

CA: 47:11060

with JIRI HOSTOMSKY

Slov. vysoka skola: tech., Bratislava, Czech.

"Determination of formic and acetic acids in the solutions after prehydrolysis of wood."

Chem. Zvesti 6, 37-43 (1952)

Analytical Chemistry 7

CA

Potentiometric determination of furfural. H. J. Janáček -
(Wood Research Inst., Bratoláca, Czech.). *Chem. Listy*
60, 601-1 (1952).—The detn. of furfural (I) is carried out by
titrating with an aq. soln. of I, contg. a known quantity of
I₂ liberated from KBrO₃ + KBr with HCl. To 20 ml. of a
soln. contg. in 1 l. 1.592 g. KBrO₃ and 10 g. KBr add 25 ml.
2.5% soln. of (NH₄)₂S₂O₈, 60 ml. 10% HCl, and 10 g. ice.
Cool the soln. to 0°, and titrate with an aq. soln. contg.
approx. 1 g. I in one l. The titration is followed potenti-
ometrically with Pt and calomel electrodes. The potential-
drop is about 600 mv. M. Huslíček

DOMANSKY R.

DOMANSKY, R.

Ternary system: furfural-water-ethanol. p.765 (Chemické Listy. Praha. Vol. 46, No. 12, Dec. 1952)

SC: Monthly List of East European Accessions, (SEAL), IC, Vol. 4, No. 6, June 1955, Uncl.

DOMANSKY, RADISLAV

Kinetics of condensation of pyrocatechol with formaldehyde in solution of sodium hydroxide. Radislav Domansky (Drevársky výskumný ústav, Bratislava, Czech.). *Chem. Zvesti* 7, 179-81 (1933). At higher temps. (35°, 40°, 45°, and 50°), the condensation (I) of pyrocatechol with (CH₂O)_n (mol. ratio 1:1) in NaOH is a 1st-order reaction. At lower temp. (30°), it is a 2nd-order reaction. The relation of reaction kinetics to temp. was compared with the Arrhenius equation and the value of activation energy of condensation calcd.: $E = 19620$ cal. There is a considerable dependence of the reaction rate constant on the concn. of NaOH.
Jan Micka

DOMANSKY, R.

"Aging Schweizer's reagent." *Chemicke Zvesti*, Bratislava, Vol 7, No 10, Dec. 1953, p. 634.

SO: Eastern European Accessions List, Vol 3, No 11, Nov. 1954, L.C.

Factors affecting the stability of fufural. Radlavy
Doplnění (Ustav chem. techn. org. Jatek Slov. akad. věd,
Hradec Králové, Czech.). *Chem. Zvesti* 9, 25-28 (1965).—The
spontaneous decompn. of fu(fural (I) in solns. is caused by
atm. O at 23-50°, the effect of which is increased with the
increase of the surface area and temp. With this change
there is no increase in acidity. I decomp. very rapidly in
hydroxide and nitrate with the same rate in neutral, acid,
and carbonate medium. The stability of I is greater in org.
than in H₂O solns. The relative decrease in concn. of I is
the greater the lower the quantity of I in solns. The de-
comn. of I in H₂O solns. is not affected by the presence of
salts of heavy metals and by ultraviolet radiation.

Jan Míčka

M
1967

DOMANSKY RADISLAV

A new method of determining sodium sulfide in sulfate
liquors. Radislav Domansky (Sloven. akad. vied, Brati-
slava, Czech. J. Chem. Zvesti 6, 568-63(1955); cf. C.A. 49, 211
8043). The method is potentiometric and is based on the
titration of Na_2S by an ammoniacal soln. AgNO_3 or by an
aq. soln. of HgCl_2 with Pt indicator electrode. The results
are not affected by various anions, of OH^- , CO_3^{2-} , SO_4^{2-} ,
 $\text{S}_2\text{O}_3^{2-}$ and SCN^- . They compare favorably with the results
of the standard TAPP1 method; but the new method can be
carried out in much less time. Jan Miska

DOMANSKY, RADISLAV

3

CZECH

Conductometric determination of alkali sulfide, hydroxide, and carbonate in mixtures. Radislav Domansky (Slav. akad. v d. Bratseva, Czech.) - Chem. Listy 67, 100-01 (1965). - A new conductometric detn. of alkali sulfide, hydroxide, and carbonate in the presence of one another is based on pptn. with 0.5N AgNO₃. The content of S²⁻ can be detd. with relatively little error; the detn. of CO₃²⁻ is less accurate. Low content of CH⁻ decreases the accuracy of the detn. of Cl⁻ and S²⁻; therefore it is advisable to add a known quantity of NaOH prior to titration of samples having a content of OH⁻. The presence of Na₂S₂O₃ interferes. M. Hodlicky

185

DOMANSKY, R.

3

1879. The method of detection of cyanide in weak
 equiv. R. Domansky, Bratislava, Czechoslovakia.
 Chem. Zvest. 1958, 1, 54, 5 (13), 781-783. The
 sample (100 ml) is diluted with an equal vol. of
 water and treated with either 0.1 N ammoniacal
 (3-5% aq. NH₃) AgCl or 0.1 N aq. HgCl₂, each
 gives equally accurate results, a platinum indicator
 electrode and a S.C.H. ring used. A little citric acid
 should be added to the sample to avoid coagulation
 of org. compounds on the electrodes, etc. The
 method is much more rapid and more accurate than
 the TAPPI method; it gives results 2-6% higher
 as it avoids the H₂S loss of the TAPPI method.
 Its accuracy is not affected by the presence of
 OH⁻, CO₃²⁻, SO₄²⁻, SO₃²⁻, NO₂⁻ or Cl⁻.

Handwritten signature

DOMANSKY, R.

B-8

CZECHOSLOVAKIA/Physical Chemistry - Thermodynamics,
Thermochemistry, Equilibria, Physical-Chemical
Analysis, Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 20601

Author : R. Domanský, F. Rendós.

Inst : -

Title : Solubility of Sulfure Dioxide in Aqueous Ammonium Solutions

Orig Pub : Chem. zvesti, 1957, 11, No 8, 453-460

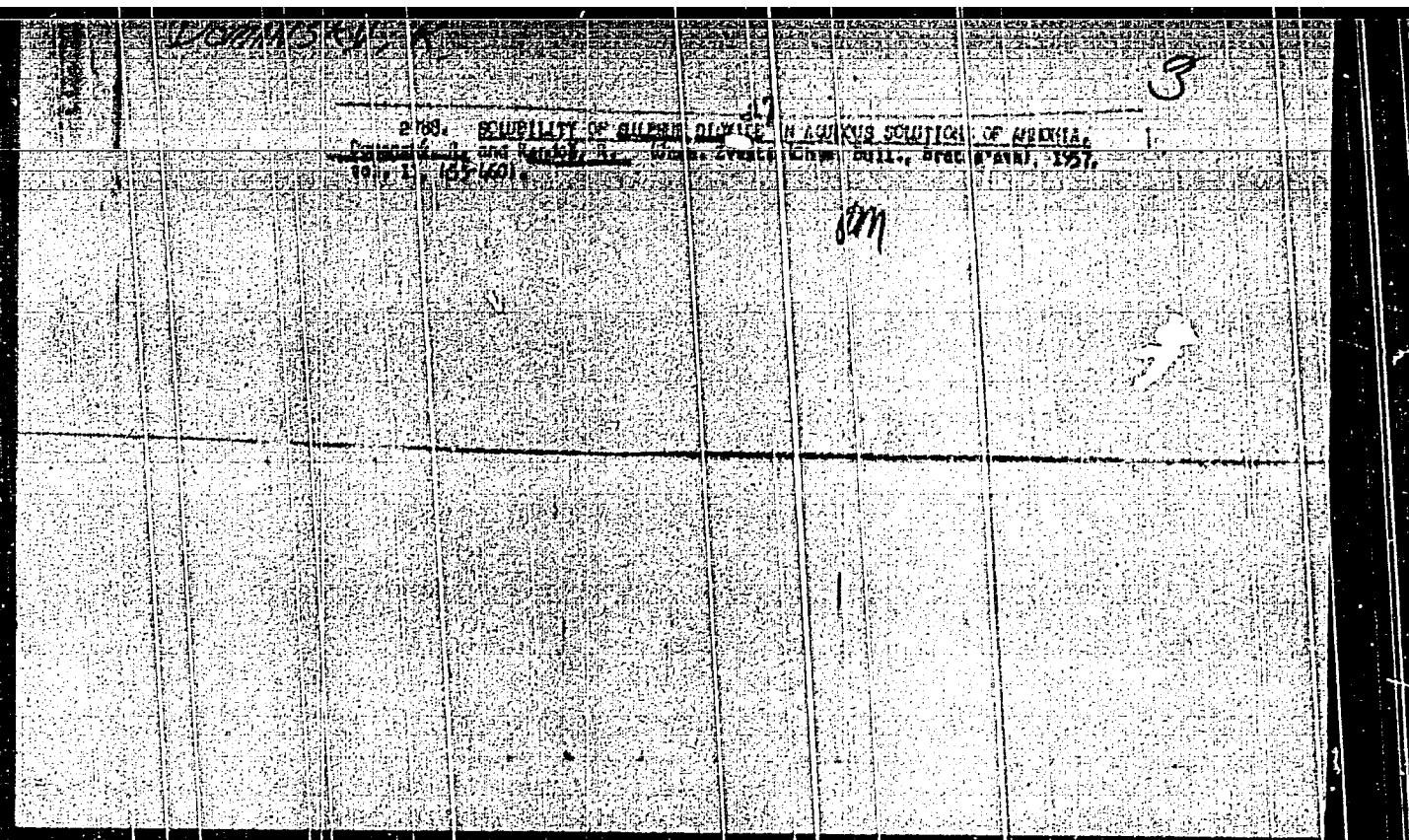
Abstract : The solubility of SO_2 in 0.5 to 2.0% -ual ammonium solu-
tions in water was measured at 15 to 30°. The equipment
and the methods of measurement are described. The dissolu-
tion of SO_2 follows Henry's law. The solubility is less
in diluted NH_4HSO_4 solutions than in water. The solubili-
ty of SO_2 decreases to a minimum with the rise of ammonium
sulfite concentration, after which it increases again.

Card 1/1

DOMANSEK, R.

Determination of total sodium in sulfate lyes by means of the flame photometer. p.32. CHEMICKI ZVEŠTI. (Slovenska akademija vied e Spolok chemicov na Slovensku) Bratislava. Vol. 10, no.1, Jan. 1956.

SOURCE: East European Accessions List. (EEAL), Library of Congress Vol, 5, no. 12, December 1956.



~~RADISLAV~~ DOMANSKY, RADISLAV

Kinetics of the formation of benzaldoxime Radislav
Domansky and O. Jurankova (Masaryk Univ., Brno,
Czech). *Z. physik. Chem. (Leipzig)* 213, 133-9 (1960).
The kinetics of the formation of benzaldoxime in acid and
neutral media are of 2nd order. As soon as the most of the
starting material has been used up, the effect of the hydroly-
sis of the oxime formed becomes noticeable and the reaction
takes the character of a reversible reaction. The velocity of
oxime formation has a distinct max. between pH 5 and 6,
which is attributed to the mechanism of the reaction. The
values of energy and entropy of the reaction are given for
different pH values. Friedrich Spstein

3AS(113)

DOMANSKY, Radislav, do., inz., dr.

Basic research on wood in Czechoslovakia. Drevo 17 no.6:171-172
Je '62.

1. Ustav dreva, celulozy a chemickych vlaken, Slovenska akademia
vied, Bratislava.

DOMANSKY, R.

"Chemical thermodynamics" by J.Klotz. Reviewed by
R. Domansky. Chem zvesti 18 no.10:798 '64.

"Introduction to the chemical thermodynamics by J.
Klotz. Reviewed by R.Domansky. Ibid.:799

DOMANUSOWA, S.

Rubber Abst.
Vol. 32 No. 1
Jan. 1954
Synthetic Rubbers and Like Products

4
(2) *DATA*

115. Influence of agents, which lower the surface tension of water, on the course of the emulsion polymerisation of vinyl chloride. W. ZIKLINSKI and S. DOMANUSOWA. *Przemysl chem.*, 1953, 5, 471-2; *Chem. Tech., Berlin*, 1953, 5, 615-6. A small addition of ethylene oxide to the dispersion medium facilitates the emulsion polymerisation of vinyl chloride with hydrogen peroxide as catalyst. The effect of the surface-active compound on the rate of polymerisation and yield is discussed in relation to the polar nature of the monomer, and results of experiments are given. 3521131.1211

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9-9-54

DOMANUSCWA, S.

Chemical Abstracts
May 25, 1954
Organic Chemistry

②
~~Preparation of melamine from dicyandiamide.~~ A. Pile
and S. Domanusowa. *Przemysl Chem.* 31(8), 241-62
(1952). Some of the most frequently used methods of
prepg. melamine from dicyandiamide have been examd.
by expt. and a new method of prepg. tech. melamine (more
than 99% pure) in a simple app. is presented. 18 references.
Frank Gonet

10-12-54
Gonet

KONCZ, Istvan, a muszaki tudományok kandidátusa; DREISZKER, Maria;
SZENTPÉTERY, Tibor; BUDINCSEVITS, Andor; DOMANY, Andras;
WALDHAUSER, Ilona

Problems of surface stress and welding possibilities of metals used
by the electronic-tube industry; also, remarks by A. Budincsevits,
A. Domony, and I. Waldhouser. Muszaki közl MTA 26 no.1/4:185-198 '60.
(EEAI 9:10)

1. Híradástechnikai Ipari Kutató Intézet (for Dreiszker and
Szentpetyer)
(Electron tubes) (Metals) (Welding)

DOMANY, György.

SZABO, Emil; GORCS, Jenő; ~~DOMANY, György.~~

Vaginal smears in cytologic research in determination of menstrual cycle and amenorrhea. Magy.noorv.lap. 18 no.2:111-117
Mar 55.

1. A Pécsi Orvostudományi Egyetem Szülészeti Klinikájának
Közleménye (Igazgató: Lajos László dr. egyet. tanár)
(VAGINAL SMEARS,
determ. of cycle & differ. diag. of amenorrhea)
(AMENORRHEA, differential diagnosis,
vaginal smears)

GATI, Istvan; KISS, Dezso; DOMANY, Gyorgy; HUSVET, Ferenc; HALVAX, Laszlo

Importance of extensive liquid intake in prevention of thromboembolism according to coagulation tests. *Magy. noorv. lap.* 18 no.3:167-170 May 55.

1. A Pecsí Orvostudományi Egyetem Szülészeti és Nőgyógyászati Klinikájának közleménye (Igazgató: Lajos, Laszlo dr. egyetemi tanár).

(THROMBOEMBOLISM, prevention and control, liquid intake, coagulation test control.)

DOMANY, Gyorgy; GATI, Istvan; NAGY, Dezso; DOMANY, Sandor

Intravenous application of Glanduitrin in the expulsion stage.
Magy.noorv.lap. 27 no.1:24-28 J '64.

1. A Pecszi Orvostudományi Egyetem Szülészeti és Nőgyógyászati
Klinikájának (Igazgató: Lajos László dr. egyet. tanár) közleménye.

*

Mechanics, U.S.S.R. - Pawls

P.T.A

621 306 615 819 770 812

Tylatycki M., Dominus J. Micro-Radiography.
Nauk-Wyd., 86, pp. 195, 120 figs

„Rentgenografia - Mikroradiacja”. Warszawa 1979. 128 stron
The importance of micro radiography in mass examination of
the population. Organisation of microphotographic mass examina-
tions. Interpretation of micro-radiograms. Historical review. Equip-
ment. Installation design. The protection of operators. Protection
technique. Applications handling. Defects and repairs. Film records.
Future development of micro-radiography

DCHANUS, JOZEF.

Domanus, Jozef. Nowe kierunki rozwoju techniki rentgenowskiej.
(Wyd. 1.) Warszawa, Panstwowe Wydawn. Naukowe, 1952. 91 p.
(New trends of development in X-ray technique. Illus., bibl.)

SO: Monthly list of East European Accessions, LC, Vol. 3, No. 1,
Jan. 1954, Uncl.

DOMANUS, Jozef.

Application of introviser of Steinhaus in field roentgenologic apparatus. Postepy radiol.Vol.1:205-212 1954.

1. Z Zakladu Radiologii Przemyslowej Instytutu Elektrotechniki w Warszawie, Kierownik: mgr. inż. J. Domanus.

(FOREIGN BODIES, diagnosis,
x-ray introviser of Steinhaus)

(ROENTGENOGRAPHY, apparatus and instruments,
introviser of Steinhaus for localization of for.bodies)

DOMANUS, J.

Protection against X and γ rays. p.345.

OCHRONA PRACY; BEZPIECZENSTWO I HIGIENA PRACY. (Ministerstwo Pracy i Opieki
Spolecznej i Centralny Instytut Ochrony Pracy) Warszawa

Vol. 9, no. 11, Nov. 1955

So. East European Accessions List

Vol. 5, No. 1

Jan. 1956

DOMANUS, J.; RADWAN, M.

Electric welding in the service of heavy industry. p. 133

Railroad rolling stock at the 24th Poznan International Fair. p. 156
PRZEGLAD SPAWALNICTWA (Stowarzyszenie Inzynierow i Technikow Mechnikow
Polskich Instytut Spawalnictwa) Warszawa. Vol. 7, no. 6, June 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress,
Vol. 4, no. 12, December 1955

. DOMANUS, Jozef

Domanus, Jozef: "Developmental Trends in Radiology," Nauka Polska, Rok IV, No 2/3
(14-15), Warsaw, 1956.

DOMANUS, J.:

POLAND

"Investigation of the Relative Dielectric Strength of Freon Under Variable Pressure."

SO: Prace Instytutu Elektrotechniki, Vol. 5, No. 15, 1956.

DOMANUS, JOZEF
POLAND/Physical Chemistry. Isotopes.

B-7

Abs Jour: Ref Zhurnal Khimiya, No 5, 1957, 14580

Author : Jozef Domanus

Inst : -

Title : Tendency of Development of Radiobiological Technique

Orig Pub: Nauka polska, 1956, 4, No 2-3, 337-349

Abstract: Review; the problems of wider penetration of radioactive isotopes and x-ray radiation in various fields of sciences and engineering in the People's Republic of Poland are discussed.

Card 1/1

6949

532.217:539.103

3

Domantus J., Kamiński B., Liquid Level Regulation by Means of Gamma Rays.

"Regulacja poziomu cieczy przy pomocy promieniowania gamma".
Pomiary, Automatyka, Kontrola. No. 11, 1958, pp. 509-512, 6 figs.,
2 tabs.

The weakening of gamma rays passing through an absorbing medium proceeds according to the formula

$$J = J_0 e^{-\mu x}$$

where J_0 denotes intensity of radiation incident on a layer of material possessing thickness x , J — the intensity after passage through this layer, μ — the linear coefficient of radiation weakening (in cm^{-1}). This law was applied for regulation of the level of liquids. When the level of a liquid falls below the line radiation source-Geiger Müller counter, then the radiation will be weakened only by the wall of reservoir and the counter receives radiation of intensity J . If, however, the level of the liquid rises so much that it passes the line source-counter, then the radiation will be further weakened by the layer of liquid, and its intensity will fall to the value J_0 . This difference of intensities of radiation $J_0 - J$ can be used for regulation of the level. The counters used for measuring the intensity of radiation indicate this in the form of electric current impulses. The difference in intensity of current received from the radiation counter is used for controlling the regulation system. In the device here described, cobalt 60 was used as a source of radiation. The accuracy of liquid level regulation in the tank in conditions of continuous work obtained by the authors was ± 5 mm.

Pa
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7/11/

DOMANUS, J.

CATEGORY :

ABS. JOUR. : RZKhim., no. 20 1959, No. 71740

AUTHOR : Domanus, J.; Kaminski, B.

TITLE : The Use of Radioactive Isotopes in the Regulation of Liquid Level

ORIG. PUB. : Irzen. chem., 1958, 37, No 10, 673-676

ABSTRACT : The Warsaw Institute of Electrical Engineering has developed a model of level regulator which is based on the application of gamma-radiation by a source of the ⁶⁰Co isotope. The regulator consists of a source and a receptor of gamma-radiation, installed along the same horizontal, straight line, on opposite sides of the outside of the collector of the liquid. Source and receptor are mechanically linked to each other and can be moved up and down the collector, and positioned at the desired level. When the liquid level drops below the preset value the receptor is exposed to a maximum amount of gamma rays, which after suitable transformation and amplification, actuates

CARD: 1/2

COUNTRY : Poland
CATEGORY :
APP. JOUR. : ROKhim., No. 20 1959, Co. 71740
AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : the pump that feeds the liquid to the collector. accuracy of regulation is of $\pm 5\%$. With a steel collector 700 mm in diameter, having walls 1 mm thick, the radiation source that is used is Co^{60} , of intensity equivalent to 1 mg hr, in the form of a wire 0.5 mm in diameter and 2 mm long. A Geiger-Huller counter is used as receptor. -- Yu. Skonitsky.

CARD: 2/2

COUNTRY : Poland 1-0
CATEGORY : Chemical Technology. Chemical Products and
Their Applications. Safety and Sanitation
ABS. JOUR. : RZKhim., No. 20 1959, No. 71876
AUTHOR : Boranas, J.
TITLE : Protection Against Radiation of Isotopes

ORIG. PUB. : Przem. chem., 1958, 37, No 11, (90-95)

ABSTRACT : Brief description of the mechanism of bio-
logical action of radioactive isotopes (AI); maximum per-
missible concentrations of different AI in water and air,
are listed; methods of protection against radiation are
considered (shielding, remote handling, control of daily
irradiation dosage, chemical means of protection of human
organism, dosimetry). Bibliography 26 references,
T. Brabavskaya.

CARD:

DOMANUS, JOZEF.

Techniczne problemy stosowania izotopow promieniotworczych. [Wyd. 1.]
Warszawa, Poland.

Panstwowe Wydawn. Techniczne, 1959. 439 p.

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

Uncl.

DOMANUS, J.

T. Radoszewski's Techniczne laboratorium radiologiczne (Technical Radiological Laboratory); a book review. p. 34

OCHRONA PRACY. (Centralna Rada Zqiazkow i Centralny Instytut Ochrony Pracy)
Warszawa, Poland
Vol. 14, no. 6, June 1959

Monthly list of East European Accessions (EFAI) L3 Vol. 8, no. 9
Sept. 1959
Uncl.

DOMANUS, JOZEF

P/046/60/005/03/03/006

AUTHORS: Domanus, Józef; Osuchowski, Bogusław

TITLE: The Concept of "Gram-Equivalent of Radium" for Non-Point Isotopic Gamma-Ray Sources /9

PERIODICAL: Nukleonika, 1960, Vol. 5, No 3, pp 143 - 148

TEXT: The English-language article contains an exposition presented on October 16, 1959 at the Symposium on Metrology of Radionuclides of the International Atomic Energy Agency, Vienna. The authors advocate the determination and introduction of an international gram-equivalent of radium for non-point isotopic gamma-ray sources. The determination of the activity in Curies is not satisfactory for gamma-ray sources used in radiography and teletherapy. These sources cannot be considered as point sources because of their relatively heavy activities and large dimensions. The effect of autoabsorption in the source does not permit determination of the latter's output directly from the known activity and ionization constant. The concept of the gram-equivalent of radium is more convenient for practical reasons, because it makes possible an instant calculation of dose-rates for a given distance from the source in question. The specification method for

Card 1/2

P/046/60/005/03/03/006

The Concept of "Gram-Equivalent of Radium" for Non-Point Isotopic Gamma-Ray Sources

the gram-equivalent of non-point radium sources should be clearly determined. There are two different views of the subject. The authors present two different ways of formulating the concept of the radium gram-equivalent, suggest clarification of the difference, and an unequivocal definition and introduction of the gRa concept for activity determination of gamma-ray sources used in radiography and teletherapy.

ASSOCIATIONS: Nuclear Energy Commission; Polish Standards Committee, Warsaw

PRESENTED: October 16, 1959

SUBMITTED: October 20, 1959

✓

Card 2/2

85444

P/046/60/005/004/004/007

A222/A026

21.5300

AUTHORS: Domanus, Józef; Halski, Leszek

TITLE: Radiation Protection ¹⁹ Measurements of Gamma Radiation of Various Radioisotopes by Means of the Photographic Method

PERIODICAL: Nukleonika, 1960, Vol. 5, No. 4, pp. 227 - 238

TEXT: The German-language article is a report presented at the 2nd Conference on Scientific and Applied Photography in September 1959 in Budapest. The paper deals with test films as a means of radiation safety in industrial defectoscopy. General data (half life, radiation intensity, thickness of materials subjected to defectoscopy tests) of gamma-type radioisotopes (Tm 170, Ir 192, Cs 137, Co 60, Eu 152 + 154, Ra ²²⁶) used in pertinent tests are presented in Table 1. Various films and cover foils were subjected to tests in order to establish the film and foil combination with the most suitable exposure-density curve. The tests involved all pertinent films used in Poland, such as Foton Roentgen (16° CUK), Foton Roentgen Super (44° CUK), and the GDR-made Agfa Texo R and Agfa Texo S. Among amplification foils tested were lead foils (0.2 + 0.2 mm Pb), salt foils Perlux M 100G and Perlux M 200G. All irradiated films were developed for 5 mi-

Card 1/3

85444

P/046/60/005/004/004/007
A222/A026Radiation Protection Measurements of Gamma Radiation of Various Radioisotopes by
Means of the Photographic Method

notes at 20°C in a "Foton Roentgen" developer. The dependence of exposure density on doses (exposure-density curves) for various films and film-and-foil combinations are presented in Figures 3 through 9. The identification numbers of the curves are code numbers of film and/or film-foil combinations as explained in Table 2. The conclusions of the test were: 1) No ideal exposure-density curve was established for any of the film-foil combinations. (The ideal film-and-foil combination was expected to have a straight characteristic section for doses between 100 and 1,000 mr and film densities between 1 and 2). A possible explanation for the failure is that only a few kinds of film were at hand. 2) The use of salt foils produced excessive contrast and shifted the test range of from 100 to 1,000 mr into an unfavorable exposure-density range. 3) Roentgen films used without amplification foils did not produce satisfactory results, because the densities obtained were lower than $D = 1$. 4) Lead foils were established as useful, because in conjunction with films of proper sensitivity they produced exposure densities within the required test range. The comparison of exposure-density curves of various films in conjunction with lead foils 0.2 + 0.2 mm (Fig. 9) shows that

Card 2/3

85444

F/046/60/005/004/004/007
A222/A026

Radiation Protection Measurements of Gamma Radiation of Various Radioisotopes by Means of the Photographic Method

Foton Roentgen Super films are most suitable for dosimetric purposes. A dose of 100 mr produces the relatively greatest exposure density, a dose of 400 mr induces the smallest density variations for different isotopes and the desired density is obtained at a dose of 1,000 mr with a relatively low dispersion. It was further established that the film test method makes possible only approximated irradiation checks of persons working with several kinds of isotopes at a time, because of different film response to irradiation by different isotopes. On the other hand, the method ensures satisfactory and accurate results in case of only one type isotope or isotopes of similar radiation energies. A radiation test film cartridge made by the Instytut Elektrotechniki (Institute of Electrical Engineering) is shown in Figure 1. There are 3 tables and 9 figures.

ASSOCIATION: Instytut Elektrotechniki, Warszawa, Zakład Radiologii Przemysłowej (Institute of Electrical Engineering, Warsaw, Department of Industrial Radiology)

SUBMITTED: October 20, 1959
Card 3/3

WITANUS, J.

Diatri: 193d

19

4

Large Co⁶⁰ sources applied to ~~radiography~~ of metals.
V. D. ~~Demus~~ and B. ~~Onucjowski~~ (Inst. Electrotech.
Warsz.). ~~Radiofizika~~ 5, 131-69(1960)(in English).
Sources with activities >760 c. (1000 g. Ra) are not suitable
for samples thicker than 300 mm. J. Steck

DOMANUS, Jozef; OSUCHOWSKI, Boguslaw

On the problem of the concept of the radium gram equivalent in non-point isotope sources of gamma rays. Polski przegi. radiol. 25 no.4: 405-410 '61.

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(RADIUM)

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Application of large cobalt-60 sources to gamma-radiography of metals. Nukleonika 5 no.5:281-300 '60.

1. Electrotechnical Institute, Warszawa, Industrial Radiology Department.

P/014/60/039//11/006/009
A221/A026

AUTHORS: Domanus, Józef; Kamiński, Benedykt

TITLE: Application of Isotope Liquid Level Indicator in the Ammonia Synthesis Process

PERIODICAL: Przemysł Chemiczny, 1960, Vol 39, No. 11, pp. 688 - 690

TEXT: In this article the authors explain the working principles of an isotope device for controlling liquid levels inside closed containers, in this particular case, liquefied ammonia in a heat exchanger. The Zakład Radiologii Przemysłowej, Instytutu Elektrotechniki (Electroengineering Institute, Industrial Radiology Department) in Warsaw designed a prototype of liquid level isotope indicator "IM-1" in 1958. This prototype was installed in the Ammonia Synthesis Plant at the Zakłady Azotowe (Nitrogen Products Plant) in Kędzierzyn, where it is in satisfactory operation ever since. Application of isotopes for liquid-level control is based on the phenomenon that a layer of liquid weakens the radiation energy of a ionizing radiation beam emanating from the radioactive isotope. The degree of weakening depends on the energy of the radiation source and on the type and density of the material through which the beam of radiation has to pass. A layer of liquid, thick enough to be able to reduce the original radiation energy by half, is

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called "half absorbing thickness". In case of gamma radiation of cobalt 60, the "half absorbing thickness" for iron equals approximately 18 mm and for water 125mm. Principles of radiological level measuring are the same as in radio isotope level control, already described in Przemysł Chemiczny 37,637 (1958) by the above-mentioned authors (Ref. 1). Particulars of liquefied ammonia level indicator are shown in Figure 2. The indicator consists of cobalt-60 source and the Geiger-Müller counter. The range of measurement, i.e. maximum and minimum level of liquid is limited, depending on the container's diameter and type and density of measured fluid. In March 1958, a prototype of the similar indicator IMP-2 was installed in the ammonia synthesis plant in Kędzierzyn on a heat exchanger of following dimensions: diameter of vessel -500 mm, height -7,000 mm, wall thickness - 90 mm, measured medium - liquefied ammonia, pressure - 300 atm, inside temperature -10°C. Since that date there are 9 such indicators in operation in Kędzierzyn. Their level measuring range is 0.5 m with a ± 5 cm accuracy. The level is recorded on a dial indicator fitted on the instrument panel in the control room. This type of level indicator can successfully be used whenever plant conditions forbid fitting of the conventional measuring instruments inside the containers. More in-

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struments of this type are being manufactured by the Institute of Electroengineering. In the near future they will be produced serially. There are 2 photos, 1 figure and 1 Polish reference.

ASSOCIATION: Zakład Radiologii Przemysłowej Instytutu Elektrotechniki (Institute of Electroengineering; Industrial Radiology Section)

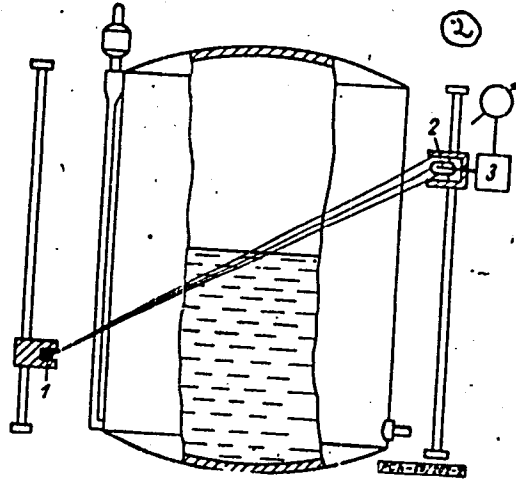
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Figure 2: Principle of liquefied ammonia level measurement
1 - radioactive isotope, 2 - the pick-up (G-M counter), 3 - isotope level meter with a dial indicator



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