L 45471-66

ACC NR: AT6033354   SOURCE CODE: · HU/2505/65/026/01-/0131/0141

AUTHOR: Karmos, G.; Grastyan, E.; Losonczy, Hajna; Vereczkey, L.; Grosz, J.   2/
ORG: Institute of Physiology, Medical University of Pecs (Pecsi Orvostudomanyi B+/
Egyetem, Elettani Intezet)
TITLE: Possible role of the hippocampus in the organization of the orientation reaction
/This paper presented at the symposium of the Hungarian Physiological Society held in
Budapest from 2 to 3 July 1963/
SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 26, no. 1-2, 1965, 131-141
TOPIC TAGS: electrophysiology, brain, cat, neurophysiology

ABSTRACT: Behavioral
and electrophysiological findings have been presented concerning the func-
tion of the hippocampus. It was found in unrestrained cats with implanted
electrodes that, in contrast to the generally accepted view, hippocampal
arousal is characterized by desynchronization similar to that of the neo-
cortex and not by theta waves. An analysis of the relationship between the
orientation reaction and hippocampal theta activity revealed that unfamiliar
stimuli in a familiar environment did not elicit an orientation reaction.
The latter could be elicited only by stimuli having a conditional signal
property. The hippocampal theta rhythm was found to be a concomitant of the
orientation reaction. An intensification of the latter was observed after
hippocampal lesions. A multiple-choice delayed reflex could not be elaborated
in cats with hippocampal lesions while the reflex elaborated before the lesion
was impaired only temporarily. The possible function of the hippocampus and
the significance of the theta rhythm have been discussed. The authors thank the
"Muszeripari Muvek", Esztergom, Hungary for the loan of the frequency analyzer.
Orig. art. has: 10 figures. [Orig. art. in Eng.] [JPRS]
SUB CODE: ₍06 / SUBM DATE: none / ORIG REF: 004 / SOV REF: 001 / OTH REF: 010
Card 1/1

CZECHOSLOVAKIA / General Biology. General Hydrobiology.   B-4

Abs Jour   : Ref Zhur - Biol., No 14, 1958, No 61974

Authors   : Losos, V.; Marvan, P,
Inst   : Brno Graduate School of Soil Science and Forestry.
Title   : Hydrobiological Conditions Prevailing in the Moravice River
             and Her Tributaries, the Podolskiy and Chernyy Creeks.

Orig Pub   : Sber. Vysoko..skoly zemed. a lesn. Brne, 1957, A, No 1, 41-69

Abstract   : No abstract.

Card 1/1

19

Country   : Czechoslovakia
CATEGORY   :

ABS. JOUR.   : RZBiol., No. 1,   1959, No. 367

AUTHOR   : Kostomarov, B.: Hochman, L.; Losos, V..
             :
TITLE   :
                Composite Studies of the River Moravia

ORIG. PUB.   : Sbor. Vysoke skoly zemed. a lesn. Brne, 1957,
                A, No 1, 119-127

ABSTRACT   : Results of composite studies of the river
Moravia (of hydrology, hydrochemistry, bacteriology,
hydrobiology, ichtiology, and diseases of fish).

CARD:
        at Brno.

LOSOS, Klemens, inz.

A self-made petroleum burner for tourism. Horyzonty techniki
15 no.4:34-36 '62.

USSR/Biology - Physiology

Card 1/1   ¶ Pub. 22 - 39/41

Authors   ¶ Shkorbatov, G. L.; Azanovich, L. P.; and Losovskaya, G. V.

Title   ¶ Conditions of a medium and its effect on the oxygen demand of young carp

Periodical ¶ Dok. AN SSSR 98/2, 311-312, Sep 11, 1954

Abstract   ¶ The conditions of a medium and its effect on the oxygen demand of young fish (carp) are discussed. Eight references: 7-USSR and 1-USA (1935-1953). Graphs.

Institution : A. M. Gorkiy State University, Kharkov

Presented by : Academician V. A. Engel'gardt, May 24, 1954

L O S O V S K A Y A,   G. V.

21-1-25/26

AUTHOR: Losovskaya, G.V. (Ukrainian spelling: Losovs'ka, H.V.)

TITLE: On Some Faunal Findings in the Northwest Part of the Black Sea
(O nekotorykh faunisticheskikh nakhodkakh v severo-zapadnoy
chasti Chernogo morya)

PERIODICAL: Dopovidi Akademii Nauk Ukrains'koi RSR, 1958, # 1, pp 108-110
(USSR)

ABSTRACT: While studying the polychaetes fauna in the northwestern
part of the Black Sea at the Odessa Biological Station of the
Institute of Hydrobiology of the Ukrainian Academy of Sciences
in 1954, the author discovered some new species of polychaetes:
Heterocirrus caput-esocis Saint Joseph and Pectinaria belgica
Pallas.
     Both of these species, which are new for fauna of the Black
Sea, belong to Boreal - Atlantic specimens which do not exist
in the Mediterranean Sea.
     Among the species common to the Black Sea and North Atlan-
tic, but not occuring in the Mediterranean Sea, is Magelona
rosea Moore, which was found for the first time by the author
in the northwestern part of the Black Sea.
     The article contains 2 figures, 3 Russian and 1 French
Card 1/2   references.

On Some Faunal Findings in the Northwest Part of the Black Sea   21-1-25/26

ASSOCIATION: Odessa Biological Station of the Institute of Hydrobiology
            (Odes'ka biolohichna stantsiya Instytutu hidrobiolohii AN URSR)
            of the Ukrainian Academy of Sciences

PRESENTED: By Academician of the Ukrainian Academy of Sciences A.P. Mar-
            kevich (O.P. Markevych)

SUBMITTED: 23 April 1957.

AVAILABLE: Library of Congress

Card 2/2   1. Biology 2. Annelids

LOSOVSKAYA, G.V.; NESTEROVA, D.A.

Mass development of a new form of the polychaete Polydora
ciliata ssp. limicola Annenkova of the Black Sea in the Sukhoy
Liman (the northwestern part of the Black Sea). Zool. zhur.
43 no.10:1559-1560 '64.   (MIRA 17:12)

1. Odessa Biological Station, Institute of Hydrobiology,
Academy of Sciences of the Ukrainian S.S.R.

LOSOVSKAYA, G.V.

Distribution and quantitative development of bottom fauna of the
Black Sea in the Karadag area.   Trudy Karad. biol. sta. no.16:16-
29 '60.   (MIRA 13:9)
          (BLACK SEA—BENTHOS)

LOSOVSKAYA, G.V.

Effect of salinity on the survival of some Black Sea Polychaeta.
Trudy Karad. biol. sta. no.17:46-51 '61.   (MIRA 15:5)
        (Black Sea--Polychaeta) (Salts--Physiological effect)

LOSOVSKAYA, G.V.

Effect of changes in the salinity, gas regime and bottom on some
polychaetes of the Black Sea. Vop. ekol. 5:115-117 '62.
(MIRA 16:6)

1. Biologicheskaya stantsiya AN UkrSSR, Karadag.
(Black Sea--Polychaeta)

VINOGRADOV, K.A. [Vynohradov, K.O.]; LOSOVSKAYA, G.V. [Losovs'ka, H.V.]

Polychaeta in the northwestern part of the Black Sea. Nauk.zap. Od.biol.sta. no.5:3-11 '64. (MIRA 18:1)

LOSOVSKAYA, G.V. [Losovs'ka, H.V.]

Distribution of the marine species of the polychaetes Nereis
(Neanthes) diversicolor O.F.Muller and Nereis (Neanthes) succinea
(Leuck.) in the Dnieper-Bug Liman. Nauk.zap.Od.biol.sta. no.5:34-
38 '64. (MIRA 18:1)

3. 2500 (1080)

30675
S/141/61/004/004/002/024
E032/E514

AUTHORS: Koshchenko, V.N., Losovskiy, B.Ya. and Salomonovich,A.Ye.

TITLE: The lunar radio emission at 3.2 cm wavelength

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,
            1961, Vol.4, No.4, pp.596-599

TEXT: The authors have measured the brightness temperature
of the thermal radio emission of the moon at 3.2 cm wavelength
using the 22 m radio telescope of the Physics Institute of the
Academy of Sciences. Systematic changes in the two-dimensional
radio brightness distribution were established. The beam width
at 3 db was 6'.3 ± 0'.2 (Ref.3: V. M. Karachun, A. D. Kuz'min,
A. Ye. Salomonovich, Astron. zhurn. (in press)). The sensitivity
threshold of the detector was 3-4° at a time constant of 1 sec.
Fig.1 shows some typical distributions obtained for different
optical phases. These distributions were then used to determine
the brightness temperature of the centre of the lunar disc T_u as
a function of the lunar phase. The result is shown in Fig.2
(□ – August, ● – September, ✗ – October, △ – November, 1960).
The average value of the brightness temperature was found to be

Card 1/3

30675

The lunar radio emission at ...   S/141/61/004/004/002/024
E032/E514

$223°K$ and the experimental points can be represented by the
formula: $T_{\text{H}} = 223 - 17 \cos (\Phi - 45)$ deg.   Assuming that the
latitude variation of the surface temperature (A. Ye. Salomonovich
and V. N. Koshchenko, pp.591-595 this issue) is of the form $\cos^{1/2} \psi$,
the theory given by V. S. Troitskiy (Ref.7: Astron. zhurn., 31,
511, 1954) may be used to estimate the ratio of the depth of
penetration of radio and thermal waves δ into the lunar soil.
The 3.2 cm observations yielded $\delta = 6.1$ so that $\delta/\lambda = 1.9$. This is
approximately the same as the value obtained for $\lambda = 2$ cm (Ref.6:
this issue pp.591-595).   The measured value of the phase delay
$(45° \pm 5°)$ is in good agreement with the calculated value $(41°)$
obtained on the assumption of a uniform radiating layer. There are
2 figures and 7 references: 6 Soviet and 1 non-Soviet. The English-
language reference reads as follows: Ref.5: R. N. Bracewell,
Austr. J. Phys., 9, 1-4, 1956).

ASSOCIATION: Fizicheskiy institut imeni P. N. Lebedeva AN SSSR
                (Physics Institute imeni P. N. Lebedev AS USSR)
SUBMITTED: January 23, 1961
Card 2/5

SALOMONOVICH, A.Ye.; LOSOVSKIY, B.Ya.

Observations of radio brightness distribution on the lunar
disk at the 0,8 cm.wavelength. Astron.zhur. 39 no.6:1074-1082
N-D '62.   (MIRA 15:11)

1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR.
                    (Radio astronomy)
                        (Moon)

KISLYAKOV, A.G.; LOSOVSKIY, B.Ya.; SALOMONOVICH, A.Ye.

Radio emission of lunar "seas" and "continents" in the millimeter
band. Izv. vys. ucheb. zav.; radiofiz. 6 no.1:192-193 '63.

(MIRA 16:7)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR.
(Moon--Observations) (Radio astronomy)

VETUKHNOVSKAYA, Yu.N.; KUZ'MIN, A.D.; KUTUZA, B.G.; LOSOVSKIY, B.Ya.;
     SALOMONOVICH, A.Ye.

Measuring the radio emission spectrum of the night side of Venus
in the microwave band. Izv. vys. ucheb. zav.; radiofiz. 6 no.5:
1054-1056 '63.   (MIRA 16:12)

1. Fizicheskiy institut imeni Lebedeva AN SSSR.

ACCESSION NR: AP5010433   UR/0033/65/042/002/0390/0397

AUTHOR: Losovskiy, B. Ya.; Salomonovich, A. Ye.

TITLE: The radio emission and differences in the surface matter of the lunar seas and continents

SOURCE: Astronomicheskiy zhurnal, v. 42, no. 2, 1965, 390-397

TOPIC TAGS: lunar sea, lunar continent, lunar surface, lunar radio emission, Mare Serenitatis, lunar crater

ABSTRACT: This paper describes the methods used for relative measurements of the ... contrasts of the radio emission from the different regions of the lunar disk; ... a continuation of investigations made over a period of years and already ... in the literature. The authors present the results of measurement of the ... of radio emission from the lunar seas and continents, observed with the RT-22 radiotelescope of the Physics Institute, Academy of Sciences USSR., at 8 mm. ...

Card 1/2

ACCESSION NR· AP5010433

The measurements revealed that there was a relatively small difference of brightness temperature during the period of lunation, averaging 1.5±0.5%. The amplitude of the periodic variations of contrast did not exceed 3%. It can be concluded that the characteristics of the upper layers of the seas and continents are quite similar. The excess of the nighttime temperature of the sea surface in the Mare Serenitatis over the corresponding temperature of the continental region near Sacrobosco Crater was about 8C, indicating a change in the parameter $\gamma = (k \rho c)^{-1}$ for the matter of these regions of about ... measurements suggest that the surface layer of the moon can be considered quite ... ... For more precise determinations of the degree of nonhomogeneity, ... that measurements ... ... and B, ... apparatus." Orig. art. has ... ...

ASSOCIATION: Fizicheskiy institut im. P.N. Lebedeva Akademii nauk SSSR (Physics ... ..., Academy of Sciences, SSSR)

SUBMITTED: 13Jun64   ENCL: 00   SUB CODE: AA, E-

NO REF SOV: 011   OTHER: 003   ATD PRESS· 3255

Card 2/2

L 53994-65   FBD/EWT(1)/EWG(v)/EEC-4/EEC(t)   Pa-5/Pae-2/P1-4   GW/WS-4

ACCESSION NR: AP5012759   UR/0020/65/161/006/1301/1302

AUTHOR   Kutuza, B. G.; Losovskiy, B. Ya.; Salomonovich, A. Ye.

TITLE: Saturn radio emission at the 8-mm wavelength

SOURCE: AN SSSR. Doklady, v. 161, no. 6, 1965, 1301-1302

TOPIC TAGS: Saturn radio emission, radio emission measurement, Jupiter radio
emission

ABSTRACT: In July and August 1964, measurements of the brightness temperature of
Saturn at 8 mm were carried out with the 22-m radiotelescope of FIAN, equipped
with a standard modulation radiometer for the 8-mm wavelength. To eliminate errors
in determining the antenna parameters, Jupiter radio emission was recorded at
the same time. The brightness temperature of Jupiter with respect to the optically
visible disk was assumed to be 144K. Recordings of the azimuth transit of both
planets were made in conjunction with visual tracking along the zenith path. In
averaging the series of records, fading in the Earth's atmosphere and the reduc-
tion of the output signal due to the effect of the radiometer time constant were
taken into consideration. The antenna temperature and amplification stability control

Card 1/2

L 53994-65
ACCESSION NR: AP5012759

were calibrated with a gas-discharge noise generator. In all, 36 recordings of
Saturn passage were processed. The arithmetic mean value of brightness temperature
of the Saturn disk (without the ring) on the basis of 24 recordings of 22 July 1964
was 129K; on the basis of 12 recordings of 21 August 1964, the value was 144K.
The weighted mean value at 8 mm was $132\pm9K$, which is consistent with temperatures
that have been previously reported at 3 cm, 10 cm, and infrared wavelengths; thus
there is some evidence pointing to a radiation belt about Saturn, although not as
pronounced as that of Jupiter. Orig. art. has: 2 figures.   [KM]

ASSOCIATION: Fizicheskiy institut i·t. P. N. Lebedeva Akademii nauk SSSR (Physics
Institute, Academy of Sciences SSSR); Institut radiotekhniki i elektroniki
Akademii nauk SSSR (Institute of Radio Engineering and Electronics, Academy of
Sciences SSSR)

SUBMITTED: 23Nov64   ENCL: 00   SUB CODE: EC, AA

NO REF SOV: 002   OTHER: 008   ATD PRESS: 4021

Card   2/2

KUTUZA, B.G.; LOSOVSKIY, B.Ya.; SALOMONOVICH, A.Ye.

Radio emission from Saturn at a wavelength of 8mm. Dokl. AN
SSSR 161 no.6:1301-1302   Ap '65.   (MIRA 18:5)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR i Institut
radiotekhniki i elektroniki AN SSSR. Submitted November 26, 1964.

L 17703-66   FBD/EWT(1)   GW/WS-2

ACC NR: AP6006790   SOURCE CODE: UR/0033/66/043/001/0236/0237

AUTHOR: Kutuza, B. G.; Losovskiy, B. Ya.; Salomonovich, A. Ye.

ORG: Physics Institute im. Lebedev, Academy of Sciences SSSR (Fizicheskiy institut Akademii nauk SSSR); Institute of Radio Engineering and Electronics, Academy of Sciences SSSR (Institut radiotekhniki i elektroniki Akademii nauk SSSR)

TITLE: Observations of the radio emission of Mars at 8 mm

SOURCE: Astronomicheskiy zhurnal, v. 43, no. 1, 1966, 236-237

TOPIC TAGS: Mars planet, temperature measurement, planetary atmosphere

ABSTRACT: The brightness temperature of Mars was measured at 8 mm during its opposition on 8 and 15 March 1965. In all, 57 recordings were made by means of the RT-22 radio telescope of the Physics Institute im. Lebedev, Academy of Sciences SSSR. The brightness temperature averaged over the disk proved to be 225 ±10K.   Orig. art. has: 1 figure and 1 table.   [DW]

SUB CODE: 03/ SUBM DATE: 27Jul65/ ORIG REF: 001/ OTH REF: 006/ ATD PRESS:

Card 1/1   UDC: 523.164.43

L 04308-67   EWT(1)   GW/WS-2

ACC NR: AR6013393   SOURCE CODE: UR/0269/65/000/011/0040/0040

AUTHORS: Kutuza, B. G.; Losovskiy, B. Ya.; Salomonovich, A. Ye.   39

TITLE: Measurement of the radio emission of Mercury at 8 mm   B

SOURCE: Ref. zh. Astronomiya, Abs. 11.51.371

REF SOURCE: Astron. tsirkulyar, no. 327, apr. 28, 1965, 5-7

TOPIC TAGS: radio emission, Mercury planet, temperature measurement, cosmic radio source

ABSTRACT: A short review of results is presented for measurements of the radio emission of Mercury in the meter and centimeter ranges where the luminance temperature is a function of the phase angle. The method of observing the emission of Mercury at 8 mm, used at the radio observatory FIAN with RT-22 during 1964, is described. The results of analyzing the measurements indicate a dependence of the luminance tempera- ture averaged over the disk on the phase angle. The luminance temperature T_0 at the subsolar point is $660 \pm 120^\circ K$ ($n = 1/4$) or $540 \pm 85^\circ K$ ($n = 0$) under the assumption that its distribution over the surface satisfies the law $T_1 = T_0 \cos^n \theta$ on the illumi- nated side and $T_1 = 0$ on the dark side of the planet. This result agrees within experimental error with the calculations and measurement data in the IR range. Further measurements should be made in the mm range. S. Makarova /Translation of abstract/

SUB CODE: 03
Card 1/1   UDC: 523.164:523.41

POLAND / Chemical Technology. Pharmaceuticals.   H-17
        Vitamins. Antibiotics.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 78731.

Author : Losowski, Z.
Inst   : Not given.
Title   : Fluorescence and Its Application in Pharmaceu-
          tical Analysis.

Orig Pub: Farmac. Polska, 1956, 12, No 5, 120-123.

Abstract: No abstract.

Card 1/1

21

LOSPELOVA-SHTROM, M. V.

Lospelova-shtrom, M. V. "On the geograpnic distrioution of ticks of tne
Ornithodorinae subfamily," Med. parazitoLogiya i parazitar. oolezni, 1948, No.
6, p. 501-06 - Bibliog: 13 items

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

TILEKMETOV, B.; LOSS', G.; KALININ, N.; SHABALIN, S.

In the photography sections of the Union of News Reporters. Sov.foto
20 no.10:44 O'60.   (MIRA 13:10)

1. Predsedatel' pravleniya fotosektsii Soyuza zhurnalistov Kazakhskoy SSR
(for Tilekmetov). 2. Predsedatel' pravleniya fotosektsii Soyuza zhurnalistov
Estonskoy SSR (for Loss'). 3. Predsedatel' pravleniya fotosektsii
Altayskogo otdeleniya Soyuza zhurnalistov SSSR (for Kalinin).
4. Fotokorrespondent gazety "Orlovskiy komsomolets" (for Shabalin).
               (Photography, Journalistic)

DAVYDOV, P., inzh.; LOSS', P., inzh.

Prospects for the use of indicator signals in navigation radar
stations. Mor. flot 22 no.11:13-14 N '62.   (MIRA 15:12)
                    (Radar in navigation)

LOSS', P.D.

Comparative rating of treating the stump of the umbilical cord with gramicidine, penicillin, and iodine. Vop.okh.mat. i det. 3 no.1: 68-73 Ja-F '58.   (MIRA 11:2)

1. Iz Rostovskogo oblastnogo nauchno-issledovatel'skogo instituta akusherstva i pediatrii (dir. - kandidat meditsinskikh nauk F.S. Baranovskaya, nauchnyy rukovoditel' - prof. P.Ya. Lel'chuk)
        (ANTIBIOTICS)
        (IODINE--PHYSIOLOGICAL EFFECT)
        (UMBILICUS)

IVANOV, Viktor Gavrilovich, inzh.; DAVYDOV, Pavel Semenovich, inzh.; BLAY-
    VAS, Leonid Abrmovich, inzh.; LOSS', Pavel Moiseyevich, inzh.; KHA-
    CHATUROV, V.V., red.; LAVRENOVA, N.B., tekhn. red.

["Donets" marine radar station] Sudovaia radiolokatsionmaia stantsiia
"Donets." By V.G.Ivanov i dr. Moskva, Izd-vo "Morskoi transport,"
1961. 130 p.   (MIRA 14:10)
                    (Radar in navigation)

LOSS', Ts.D.

Loss', Ts. D. "Experience in the treatment of the umbilical remains with streptocide and antibiotics", Sbornik nauch. trudov (Rost. obl. nauch.-issled. akushersko-ginekol. in-t), Issue 8, 1948, p. 156-61.

SO: U-3261, 10 April 1953 (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

LOSS', Ts. D.

Loss', Ts. D. and Shakmurad'yan, G. S. "An analysis of the death rate of
the newborn in the cities of Rostov Oblast during 1947", (Authors' summary
of the paper), Sbornik nauch. trudov 'Rost. obl. nauch.-issled. akushersko-
ginekol. in-t), Issue 8, 1948, p. 212-13.

Lossa, A.

LOSSA, A.; KOLLER, K.

Estimation of the biological value of rice proteins. Acta
physiol. hung. 5 no.3-4:477-487 1954.

1. Institute of Public Health of the Medical University, Szeged.
(Received June 2, 1953)
        (PROTEINS
            in rice, biol. value)
        (RICE
            proteins, biol. value)

LOSSINSZKY , A.

HUNGARY/Cultivated Plants - Commercial. Oil-Bearing. Sugar-   M-5
            Bearing.

Abs Jour   : Ref Zhur - Biol., No 20, 1958, 91781

Author   : Lossinszky, Andor
Inst   :
Title   : From Practical Experience in Poland. Report III.
              Tobacco Growing in the Polish People's Republic.

Orig Pub   : Dohayipar, 1956, majus, 6-9.

Abstract   : A brief survey of the state of tobacco growing in Polish
              People's Republic (Regions (rayons) varieties, agrotechny,
              economics).

Card 1/1

LOSSIYEVSKIY, V. L.

"Fast-action Regulators for High Temperatures," Tochnaya Industriya, 1938, No. 11, pp 12-15, 4 ill, ref., from Bibliography of USSR Works on Automatic Regulation and Servomechanisms 1917 - 1947, Avtomatika i Telemekhanika, No 5, 1948.

LASCHEVSKI, .L., C_and. Tech Sci.

Review of V. A.Filllipov's Book "Automatic regulation of Ventilating Units."

Avtomatika i Telemekhanika, Vol. 6, No. 4-5, 1941.

LOSSIEVSKII, V. L.

Avtomaticheskie reguliatory. Moskva, Oborongiz, 1944. 392 p.

Automatic governors.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

LOSSIEVSKIY, V. L.

Avtomaticheskoe regulirovanie. Moskva, AN SSSR, 1946. 120, /4_/ p. diagrs.

Bibliography: p. /122/.

Automatic control.

DLC: TJ1055.L6

CLU   MH   NN   WaU

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
    of Congress, 1953.

LOSSIYEVSKIY, V. L.

PHASE I   TREASURE ISLAND BIBLIOGRAPHICAL REPORT   AID 498 - I

BOOK   Call No.:   TA165.L67
    Author: LOSSIYEVSKIY, V. L.
    Full Title: ELEMENTS OF AUTOMATIC CONTROL OF TECHNOLOGICAL PROCESSES
    Transliterated Title: Osnovy avtomaticheskogo regulirovaniya
                            tekhnologicheskikh protsessov

PUBLISHING DATA
    Originating Agency: None
    Publishing House: State Publishing House of the Defense Industry
    Date: 1949   No. pp.: 228   No. of copies: Not given
    Editorial Staff
      Appraisers: M. S. Gol'dfarb, B. A. Ryabov and V. V. Solodovnikov
PURPOSE: The book is written primarily for engineers who design and
    operate systems of automatic control in various branches of industry.
TEXT DATA
    Coverage: The author concentrates his attention on the use of auto-
      matic control, in the metallurgical, chemical, textile, power and
      food industries. The objects of control are temperature, pressure,
      voltage, amount of gases and of liquids, levels, degree of concen-
      tration, humidity, angular speed, relationships of quantities, etc.
      The author gives a review of the elementary characteristics of the
      controlled objects and of the controlling devices and derives their

                                  1/2

LOSSIYEVSKIY, V. L.

"Fundamentals of the Automatic Regulation of Technological Processes," (Book),
Moscow, 1950.

OSnovy avtomaticheskogo regulirovaniya tekhnologicheskikh protsessov, Gosudarstvennoye
Izdatel'stvo Oboronnoy Promyshlennosti, (LC No TA165. L67)

The book constitutes a theoretical treatment of regulators and is intended for those
concerned with the design and exploitation of regulated plants in the various branches
of industry. The treatment is limited to systems in which only one parameter
is regulated and considers only the linear methods of analysis. Considerable
space is devoted to the description of adjustment procedures for specific regulators.
The bibliography contains 54 references to pertinent Soviet articles and books.

Translation of table of contents available W-14422, 18 Oct 1950

Chapter Summaries available - W-15556, 6 Dec 50

LOSSYEVSKIY, V. L.

"The applied theory of similarity and dynamic comparison against problems of modeled objects and regulated processes" (Primeninie teorii podbiya I dinamicheskikh analogiy K zadacham modelirovaniya objektov I protzessov regulirovaniya), published by the State Publishing House for Power Engineering Literature, Moscow-Leningrad, 1951.

LOSSIYEVSKIY, V. L.

USSR/Electricity - Personalities

Dec 51

"Academician V. S. Kulebakin (His 60th Birthday)," V. A. Trapeznikov, M. P. Kostenko, B. N. Petrov, N. V. Gorokhov, V. L. Lossiyevskiy, B. S. Sotskov, M. G. Chilikin, G. N. Petrov, A. N. Larionov, A. G. Iosif'yan, K. S. Bobov, D. A. Gorodetskiy

"Elektrichestvo" No 12, p 88

Kulebakin is very well known in the fields of elec machines, elec equipment, automatic control, and illuminating engineering and has specialized for many years in aviation elec equipment. A major general in the aviation engineering service, he was one of the founders of the All-Union Elec Eng Inst and the Inst of Automatics and Telemechan and has headed chairs at the Moscow Power Eng Inst imeni Molotov and the Air Force Eng Acad imeni Zhukovskiy.

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LOSSIYEVSKIY V. L.

Lossiyevskiy V. L., "The Fashioning of Regulation Processes for Manufactured
    Products," Avtomatika i telemekhanika, 1953, Volume XIV, No 3, Pages
    267-272; bibliography, 6 items.

LOSSIYEVSKIY, V. L.

| Lossiyevskiy, V. L. | Series of works on auto-matic regulation | Institute of Automatics and Telemechanics, Academy of Sciences USSR |

LOSSIYEVSKIY, V.L.

SOLODOVNIKOV, V.V.; professor, doktor tekhnicheskikh nauk, redaktor;
AYZERMAN, M.A., doktor tekhnicheskikh nauk; BASHKIROV, D.A., kandidat
tekhnicheskikh nauk; BROMBERG, P.V., kandidat tekhnicheskikh nauk;
VORONOV, A.A., kandidat tekhnicheskikh nauk, dotsent; GOL'DFARB, L.S.,
doktor tekhnicheskikh nauk, professor; KAZAKEVICH, V.V., doktor tekh-
nicheskikh nauk; KRASOVSKIY, A.A., kandidat tekhnicheskikh nauk,
dotsent; LERNER, A.Ya., kandidat tekhnicheskikh nauk; LETOV, A.M.,
doktor fiziko-matematicheskikh nauk; professor; MATVEYEV, P.S.,
inzhener; MIKHAYLOV, F.A., kandidat tekhnicheskikh nauk; PETROV, B.N.;
PETROV, V.V., kandidat tekhnicheskikh nauk; POSPELOV, G.S., kandidat
tekhnicheskikh nauk, dotsent; TOPCHEYEV, Yu.I., inzhener; ULANOV,
G.M., kandidat tekhnicheskikh nauk; KHRAMOY, A.V., kandidat tekhni-
cheskikh nauk; TSYPKIN, Ya.Z. doktor tekhnicheskikh nauk, professor;
LOSSIYEVSKIY, V.L., doktor tekhnicheskikh nauk, professor, retsenzent;
TIKHONOV, A.Ya., tekhnicheskiy redaktor

[Fundamentals of automatic control; theory] Osnovy avtomaticheskogo
regulirovaniia; teoriia. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. lit-ry, 1954. 1116 p.   (MLRA 8:2)

1. Chlen-korrespondent AN SSSR (for Petrov, B.N.)
   (Automatic control)

USSR/Physics - Automatics in industry

FD-1393

Card 1/1   : Pub. 10 - 2/12

Author   : Lossiyevskiy, V. L. (Moscow)

Title   : Requirements in the development of circuit schemes for the automatization of industrial processes

Periodical   : Avtom. i telem., 15, No 6, 478-491, Nov-Dec 1954

Abstract   : The author formulates the requirements to be met in developments of techno-logical processes from the view point of their automatization, and also in automatic regulation systems and control of industrial processes; e.g. circuit schemes for temperature regulation with pressure regulator, and regulation of output of heat-carrier with corrections according to variation in heat load. Five references: V. L. Lossiyevskiy, "Modeling of processes in the regulation of industrial objects," ibid., 14, No 3, 1953; A. M. Popov-skiy, "Construction of D-partitions for regulation systems of mutually interacting quantities given experimentally by recorded characteristics," ibid., 14, No 3, 1953; A. Popovskiy, "Theory of regulation of direct-flow boilers," dissertation, Institute of Automatics and Telemechanics, Acad. Sci. USSR, 1947.

Institution   :

Submitted   : October 4, 1954

LOSSIYEVSKIY, V.L.

AYZERMAN, M.A., doktor tekhnicheskikh nauk, redaktor; VORONOV, A.A., kandidat tekhnicheskikh nauk, redaktor; KOGAN, B.Ya., kandidat tekhnicheskikh nauk, redaktor; KOTEL'NIKOV, V.A., kandidat tekhnicheskikh nauk, redaktor; LETOV, A.M., doktor fiziko-meditsinskikh nauk, redaktor; LOSSIYEVSKIY, V.L., doktor tekhnicheskikh nauk, redaktor; MEYEROV, M.V., doktor tekhnicheskikh nauk, redaktor; NAUMOV, B.N. redaktor; PETROV, B.N., redaktor; SOLODNIKOV, V.U, doktor tekhnicheskikh nauk, redaktor; TRAPEZNIKOV, V.A., redaktor; KHRAMOY, A.V., kandidat tekhnicheskikh nauk, redaktor; TSYPKIN, Ya.Z., doktor tekhnicheskikh nauk, redaktor; VORONOV, A.A., redaktor; PEVZNER, R.S., tekhnicheskiy redaktor.

[Proceedings of the Second All-Union Conference on the theory of automatic control] Trudy vtorogo Vsesoyuznogo soveshchaniia po teorii avtomaticheskogo regulirovaniia.

(Continued on next card)

AYZERMAN, M.A. doktor tekhnicheskikh nauk, redaktor (Cont'd) Card 2.

Vol.3 [Methods and means of experimental research on systems of automatic control. Bibliography on the theory of automatic control and related problems] Metody i sredstva eksperimental'nogo issledovaniia sistem avtomaticheskogo regulirovaniia. Bibliografiia po teorii avtomaticheskogo regulirovaniia i smezhnym voprosam. 1955. 351 p.   (MLRA 9:1)

1. Chlen-korrespondent AN SSSR(for Petrov, Trapeznikov) 2. Vse-soyuznoye soveshchaniye po teorii avtomaticheskogo regulirovaniya 2d, Moscow, 1953.
     (Automatic control) (Bibliography--Automatic control)

LOSSIYEVSKIY, Y.L.

AYZERMAN, M.A., doktor tekhnicheskikh nauk, redaktor; VORONOV, A.A., kandidat tekhnicheskikh nauk, redaktor; KOGAN, B.Ya., kandidat tekhnicheskikh nauk, redaktor; KOTEL'NIKOV, V.A., kandidat tekhnicheskikh nauk, redaktor; LETOV, A.M., doktor fiziko-matematicheskikh nauk, redaktor; LOSSIYEVSKIY, V.L., doktor tekhnicheskikh nauk, redaktor; MEYEROV, M.V., doktor tekhnicheskikh nauk, redaktor; NAUMOV, B.N., redaktor; PETROV, B.N., redaktor; SOLODNIKOV, V.V., doktor tekhnicheskikh nauk, redaktor; TRAPEZNIKOV, V.A., redaktor; KHRAMOY, A.V., kandidat tekhnicheskikh nauk, redaktor; TSYPKIN, Ya.Z., doktor tekhnicheskikh nauk, redaktor; PEVZNER, R.S., tekhnicheskiy redaktor.

[Transactions of the Second All-Union Conference on the Theory of Automatic Control. Trudy vtorogo Vsesoiuznogo soveshchaniia po teorii avtomaticheskogo regulirovaniia. Moskva. Vol.2 [Problem of quality of dynamic precision in the theory of automatic control] Problema kachestva i dinamicheskoi tochnosti v teorii avtomaticheskogo regulirovaniia. 1955. 536 p. [Microfilm]
(MLRA 9:1)

1. Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki. 2. Chlen-korrespondent AN SSSR (for Petrov and Trapeznikov)
(Automatic control)

AYZERMAN, M.A., dokt. tekhn. nauk, redaktor; VORONOV, A.A., kandidat tekhn. nauk, redaktor; KOGAN, B.Ya., kandidat tekhn. nauk, redaktor; KOTEL'NIKOV, V.A., kandidat tekhn. nauk, redaktor; LETOV, A.M., dokt. fiz.-mat. nauk, redaktor; LOSSEYEVSKIY, V.L., dokt. tekhn. nauk, redaktor; KHRAMOY, A.V., kand. tekhn. nauk, redaktor; TRAPEZNIKOV, V.A., redaktor; MEYEROV, M.V., dokt. tekhn. nauk, redaktor; NAUMOV, B.N., redaktor; PETROV, B.N. redaktor; SOLODOVNIKOV, V.V., dokt. tekhn. nauk, redaktor; TSYPKIN, Ya.Z. dokt. tekhn. nauk, redaktor PEVZNER, R.S., tekhn. redaktor.

[Proceedings of the Second All-Union Conference on the Theory of Automatic Control.] Trudy Vtorogo Vsesoiuznogo soveshchaniia po teorii avtomaticheskogo regulirovaniia. Moskva, Izd-vo Akad. nauk SSSR.[Vol. 1 Problem of continuous and periodic operations in the theory of automatic control] Vol.1 Problema ustoichivosti i periodicheskikh rezhimov v teorii avtomaticheskogo regulirovaniia. 1955. 603 p. (MIRA 8:8)

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LOSSIYEVSKIY, V.L., doktor tekhnicheskikh nauk, professor.

Important link in technical progress. Nauka i zhisn' 22 no.10:
13-16 O '55.   (MLRA 9:1)
              (Machinery, Automatic)

LOSSIYEVSKIY, V., professor, doktor tekhnicheskikh nauk.

Basic trends in the automatization of industrial processes.
Stroi.mat., izdel.i konstr. 2 no.1:16-19 Ja '56.   (MLRA 9:5)
(Automatic control) (Abuilding materials industry)

TOPCHIYEV, A.V., akademik, glavnyy redaktor; SHUMILOVSKIY, N.N., doktor te-
       khnicheskikh nauk, otvetstvennyy redaktor; LOSSIYEVSKIY, V.L., redak-
       tor; MEZIN, I.S., redaktor; HADZHAFOV, E.M., redaktor; PLISKIN, L.G.,
       redaktor; STRAKHOVA, L.P., redaktor; YARMOL'CHUK, G.G., redaktor;
       PRUSAKOVA, T.A., tekhnicheskiy redaktor

       [Session of the Academy of Sciences of the U.S.S.R. on scientific
       problems in automatization of production, October 15-20, 1956.
       Overall automatization of production processes] Sessiia Akademii
       nauk SSSR po nauchnym problemam avtomatizatsii proizvodstva, 15-20
       oktiabria 1956 g; kompleksnaia avtomatizatsiia proizvodstvennykh
       protsessov. Moskva, 1957. 310 p.   (MLRA 10:4)

       1. Akademiya nauk SSSR.
                (Automatic control) (Automation)

SOV/112-58-2-2752

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 151 (USSR)

AUTHOR: Shumilovskiy, N. N., and Lossiyevskiy, V. L.

TITLE: Fundamental Problems of Scientific Developments in the Field of the Complex Automation of Production Processes (Osnovnyye zadachi razvitiya nauki v oblasti kompleksnoy avtomatizatsii proizvodstvennykh protsessov)

PERIODICAL: V sb.: Sessiya AN SSSR po nauchn. probl. avtomatiz. proiz-va kompleksn. avtomatiz. proizv. protsessov. M., AS USSR, 1957, pp 7-26

ABSTRACT: Bibliographic entry.

Card 1/1

LOSSIYEVSKY, V. L. (Dr. Tech. Sci.); SHULILOVSKY, N. N. (r. Tech. Sci.)

"Basic Problems in the Development of Science in the Sphere of Complex Automation of Production Processes,"

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic Production, 15-20 October 1956.
Avtomatika i telemekhnaika, No. 2, p. 182-192, 1957.

9015229

LOSSIYEVSKIY, V.L., prof.

Automatic control of industrial processes. Priroda 46 no.8:15-24
Ag '57.   (MLRA 10:9)

1. Institut avtomatiki i telemekhaniki Akademii nauk SSSR, Moskva.
(Automation)

LOSSIYEVSKIY, V. L.

PHASE I BOOK EXPLOITATION   869

Avtomatizatsiya proizvodstvennykh protsessov (Automation of
   Production Processes) No. 2. Moscow, Izd-vo AN SSSR, 1958.
   177 p. 6,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut avtomatiki i
   telemekhaniki.

Resp. Ed.: Lossiyevskiy, V.L., Doctor of Technical Sciences,
   Professor; Ed. of Publishing House: Klimov, V.A.; Tech. Ed.:
   Rylina, Yu. V.

PURPOSE: This volume is intended for specialists engaged in
   research work and planning of automation process in various
   branches of industry.

COVERAGE: The volume contains articles summarizing the results of
   investigations carried out in laboratories for the automation
   of production processes of the Institut avtomatiki i telemekhaniki,

Card 1/7

Automation of Production Processes   869

AN SSSR (Institute for Automatics and Telemechanics of the
USSR Academy of Sciences). The articles discuss the following
topics: 1) basic objectives of automation 2) classification
of industrial processes and formulation of typical automation
solutions 3) experimental methods employed in studying
industrial processes subject to regulation 4) considerations in
determining the rational sequence and the extent of automation,
and 5) results of studies on the automation of some industrial
processes and establishments.

TABLE OF CONTENTS:

Card 2/7

Automation of Production Processes   869

The study attempts to characterize the status of automation of production processes and to chart the more important directions for further development. There are no references.

Finkel'shteyn, S.M.   Classification of Production Processes
Subject to Automation and Typical Solutions of the Latter   19
The author reviews the classification of automated production processes with emphasis on continuous flows production which in terms of present instrumentation and outlook is most suitable for automation. There are 10 Soviet references.

Motulevich, D.Yu. and Tagayevskaya, A.A.   Types of Controller
Actions During Experimental Studies of Controlled Processes   43
Types of controller actions employed in studying industrial processes are reviewed, optimum conditions for the use of this or that controller action are indicated, shapes of curves for transition process and characteristics of stable conditions for single capacity plants are shown,

Card 3/7

Automation of Production Processes   869

and spectra for a number of nonperiodic actions are
presented. There are 2 appendixes and 6 Soviet references.

Rushchinskiy, V.M. Experimental Determination of Amplitude-
phase Characteristics of Controlled Plants Based on a Transient
Process With a Disturbance in a Form of a Rectangular Wave
Impulse   65
    Description of the method is presented. There are 10
    Soviet references.

Rushchinskiy, V.M. Determining the Approximate Expression for
Transfer Functions of the Controlled Plant Based on Its
Experimental Grequency Characteristics   74
    The author presents several solutions to the problem of
    lag detection. There are 4 Soviet references.

Lossiyevskiy, V.L. Determination of Rational Sequence and the
Extent of Automation of Industrial Processes   83
    This is an attempt to develop an analytical method which
    would permit the determination of production sectors most
    suitable for automation. The method consists basically of

Card 4/7

Automation of Production Processes   869

    a review of production costs, analysis of material and labor
expenditures, and subsequent introduction of automation on
sectors where automation appears to be economically more
effective than conventional methods of production. There are
1 Soviet, 1 Czech, and 1 American references.

AUTOMATION OF INDUSTRIAL PLANTS

Popovskiy, A.M., Gritskov, V.I., and Govorov, A.A. Automation
of the **Desiccating** and Absorbing Departments of Plants Using the
Contact Method of Producing Sulphuric Acid   97
    The study describes fully the automation of the desiccating
and absorbing department of the Shchelkovskiy khimicheskiy
zavod (Shchelkovskiy Chemical Plant). The principal product
of this department is monohydrate and the automation
embraces the processes within the desiccating tower, and
oleum and monohydrate absorbing columns. There are 19 Soviet
references.

Card 5/7

Automation of Production Processes   869

Gritskov, V.I.   Investigation of a Cement Mill as an Object   133
for Automation
    Automation of a mill located in the vicinity of Novorossiysk
    consists largely of instrumentation and other means to
    assure the maintenance of acceptable quality of grist and
    liquid raw material mixture at a maximum productivity level.
    Description of instrumentation is included. There are 2
    Soviet references.

Mezin, I.S. and Malyy, A.L.   Automation of Drying Drums   139
    The study presents basic concepts for the selection of a
    rational automation plan for a drying drum and describes
    its performance under normal production conditions.
    Reference is made to I.V. Vayser, Candidate of Technical
    Sciences, who participated in the work of the Institute
    for Automatics and Telemechanics of the USSR Academy of
    Sciences. There are 4 Soviet references.

Card 6/7

Automation of Production Processes   869

Shumilovskiy, N.N. and Pliskim, L.G.   Some Problems Encountered
in the Development of an Automatic Control System for the
Gasification Process in a Boiling Layer   153
    The authors briefly described the technological process taking
    place in the boiling layer, the principal plan for automatic
    control, and characteristic features of the boiling layer.
    There are 1 Soviet, 2 German and 4 English references.

Pliskin, L.G.   A System of Automatic Control of the Gasification
Process in a Boiling Layer   164
    The article describes the plan for a complex automatic
    control worked out in the Institute for Automatics and
    Telemechanics of the USSR Academy of Sciences with the
    participation of GIAP (State Institute of the Nitrogen
    Industry) and the Chirchik khimelektrokombinat MKhP SSSR
    (Chirchik Chemical-Electrical Combine of the Ministry of the
    Chemical Industry, USSR). There are 4 Soviet and 1 English
    references.
AVAILABLE: Library of Congress

Card 7/7   JG/jmr
                                            11-25-58

LOSSIYEVSKIY, V.L.

MITROFANOV, Vladimir Pavlovich; RUDZITSKIY, Aleksandr Abramovich; LOSSIYEVSKIY,
V.L., prof., retsenzent; RAKOVSKIY, M.Ye., dots., retsenzent; KULIK,
M.I., inzh., retsenzent; IVANOV, A.S., inzh., spetsred.; KRUGLOVA,
G.I., red.; DOBUZHINSKAYA, L.V., tekhn. red.

[Automatic control in the manufacture of beet sugar] Avtomatizatsiia
sveklosakharnogo proizvodstva. Moskva, Pishchepromizdat, 1958.
299 p.   (MIRA 11:9)
                        (Sugar manufacture)
                        (Automatic control)

LOSSIYEVSKIY, V.L., doktor tekhn.nauk,prof.

Objectives in automating industrial processes. Avtom. proizv. prots.
no.2:7-18 '58.   (MIRA 13:8)
                        (Automation)

LOSSIYEVSKIY, V.L.

Determination of a rational sequence and scope for automation in industry. Avtom. proizv. prots. no.2:83-93 '58.   (MIRA 13:8)
(Automation)

PHASE I BOOK EXPLOITATION   SOV/4763

Lossiyevskiy, Vladimir Leonidovich, and Leyb Gavrilovich Pliskin

Voprosy avtomatizatsii nepreryvnykh proizvodstvennykh protsessov (Problems in Automation of Continuous Production Processes) Moscow, AN SSSR, 1960. 111 p. Errata slip inserted. 5,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.

Resp. Ed.: N.N. Shumilovskiy, Doctor of Technical Sciences, Professor; Ed. of Publishing House: V.A. Kotov; Tech. Ed.: G.S. Simkina.

PURPOSE: This book is intended for scientific, engineering and technical personnel in scientific-research and planning organizations dealing with automation of continuous production processes.

COVERAGE: The authors discuss prerequisites for automation, make recommendations regarding the extent of its application, and present information on production analysis. Also included is information on automation sequence, and methods for determining parameters. Automatic centers which reserve the checking and measuring instruments and automatic equipment for emergencies are described

Card 1/4

Problems in Automation (Cont.)   SOV/4763

and systems for controlling automatic processes are examined. Attention is
given to methods for restraining abnormal operation. Recommendations are made
for the construction of combined and cascade regulation systems, and for auto-
matic optimizing systems. A method for constructing a composite index for
controlling processes by computers is also considered. According to the authors,
Chapters I and II present efficient automation phases which to a certain extent
have been incorporated into practice. In Chapters III and IV they attempt to
systematize certain propositions connected with the control of automated produc-
tion processes and relevant computer technique. Chapters I, II, and III were
written by V.L. Lossiyevskiy. L.G. Pliskin wrote Chapter IV. No personalities
are mentioned. There are 23 references: 19 Soviet and 4 English.

TABLE OF CONTENTS:

Card 2/4

LOSSIYEVSKIY, V.L

PHASE I BOOK EXPLOITATION   SOV/4612

Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki

Avtomaticheskoye proizvodstvennykh protsessov; vyp. 3 (Automation of Production Processes, No. 3) Moscow, 1960. 133 p. Errata slip inserted. 5,000 copies printed.

Resp. Ed.: V.L. Lossiyevskiy, Professor, Doctor of Technical Sciences; Ed. of Publishing House: Ye. M. Grigor'yev; Tech. Ed.: O.M. Gus'kova.

PURPOSE: This collection of articles is intended for scientific and engineering personnel in industry.

COVERAGE: The present (third) volume of the collection of articles "Automation of Production Processes" contain data on general problems of automation of specific industries. Problems of classification analysis as applied to the automation of diverse engineering processes and typical solutions in the automation of machines are developed; some averaged indices of capital and operational expenditure for industrial automation are considered. The effect of extended supplies pipelines on the stability of automatic-control systems containing regulators of pneumatic and hydraulic type is discussed. The selection and analysis of a generalized scheme of automatic discontinuous-type pro- duction purposes, applied to textile industry, are described. Finally, prob- lem in the optimal training of engineering personnel in the field of auto- mation of production processes are considered. No personalities are mentioned. There are 67 references: 53 Soviet, 2 English, 4 German, 1 French, and 1 Italian.

6. Sinyakova, L.P.... On Capital and Operational Expenditures for Control and Measuring Instruments and Automation in Automated Production   88

7. Lossiyevskiy, V.L.... On the Training of an Engineering Staff in the Field of Automation of Production Processes   97

8. Khaperny, N.N.... Automation of the Process of Preparing the Air in Industrial Year-Round Air-Conditioning Installations   102

9. Krasiq, I.M., and B.G. Dublin. Discharge Coefficients of a Hy- draulic Back-Pressure Type Throttle   130

AVAILABLE: Library of Congress

Card 3/3   AC/mb/gmp
12-16-60

LOSSIYEVSKIY, V. L.

Training of engineers in the field of automation of industrial
processes. Avtom. proizv. prots. no.3:97-101 '60.   (MIRA 13:10)
                        (Automatic control)
            (Electric engineering—Study and teaching)

LOSSIYEVSKIY V. L.

BERG, A.I., glav. red.; TRAPEZNIKOV, V.A., glav. red.; BERKOVICH, D.M.,
zaml glav. red.; LERNER, A.Ya., doktor tekhn. nauk, prof.,
zam. glav. red.; AVEN, O.I., red.; AGEYKIN, D.I., red.; kand.
tekhn. nauk, dots., red.; AYZERMAN, M.A., red.; VENIKOV, V.A.,
doktor tekhn. nauk, prof., red.; VORONOV, A.A., doktor tekhn.
nauk, prof., red.; GAVRILOV, M.A., doktor tekhn. nauk, prof.,
red.; ZERNOV, D.V., red.; IL'IN, V.A., doktor tekhn. nauk,
prof., red.; KITOV, A.I., kand. tekhn. nauk, red.; KOGAN, B.YA.,
doktor tekhn. nauk, red.; KOSTOUSOV, A.I., red.; KRINITSKIY.
N.A., kand. fiz.-mat. nauk red.; LEVIN,G.A.,prof.red.;
LOZINSKIY, M.G., doktor tekhn. nauk, red.; LOSSIYEVSKIY, V.L.
red.; MAKSAREV, Yu.Ye., red.; MASLOV,A.A.,dots.,red.;POPKOV,A.A.,red.;
RAKOVSKIY, M.Ye., red.; ROZENBERG, L.D., doktor tekhn.nauk,
prof., red.; SOTSKOV, B.S., red.; TIMOFEYEV, P.V., red.;
USHAKOV, V.B., doktor tekhn. nauk, red.; FEL'DBAUM, A.A.,
doktor tekhn. nauk, prof., red.; FROLOV, V.S., red.;
KHARKEVICH, A.A., red.; KHRAMOY, A.V., kand. tekhn. nauk, red.;
TSYPKIN, Ya.Z., doktor tekhn. nauk, prof., red.; CHELYUSTKIN,
A.B., kand. tekhn. nauk, red.; SHREYDER, Yu.A., kand. fiz.-
mat. nauk, dots., red.; BOCHAROVA, M.D., kand. tekhn.nauk,
starshiy nauchnyy red.; DELONE, N.N., inzh., nauchnyy red.;
BARANOV, V.I., nauchnyy red.; PAVLOVA, T.I., tekhn. red.
                                  (Continued on next card)

BERG, A.I.—— (continued). Card 2.

[Industrial electronics and automation of production proces-
ses]Avtomatizatsiia proizvodstva i promyshlennaia elektronika.
Glav. red. A.I.Berg i V.A.Trapeznikov. Moskva, Gos.nauchn.
izd-vo "Sovetskaia Entsiklopediia." Vol.1. A - I. 1962. 524 p.
                                                (MIRA 15:10)
1. Chlen-korrespondent Akademii nauk SSSR (for Sotskov,
Kharkevich, Zernov, Timofeyev, Popkov).
     (Automatic control)   (Electronic control)

BALASHOV, A.A.; LOSSIYEVSKIY, V.L.; CHERNYSHEV, V.N.; SHVAB, A.F.;
SHELEMIN, B.V.; ANDREYENKO, Z.D., red.; POPOVA, S.M.,
tekhn. red.

[Flow sheets and means of automation of radiochemical
industries; automation of radiochemical extraction proces-
ses] Skhemy i sredstva avtomatizatsii radiokhimicheskikh
proizvodstv; k voprosu ob avtomatizatsii radiokhimicheskikh
ekstraktsionnykh protsessov. Moskva, Gosatomizdat, 1963.
186 p.   (MIRA 17:2)

LOSSKIY, NIKOLAY ONUFRIYEVICH

History of Russian Philosophy. New York, International Universities Press
/‾1951_7

416 p. 24 cm.

Includes Bibliographical References.

LOSSOVSKIY, V.A.

Passage of pulse signals through a distributed RC circuit
containing a nonlinear p-n junction capacitance. Radiotekh.
i elektron. 10 no.9:1646-1652 S '65.   (MIRA 18:9)

LOSSOVSKIY, V.A.

Calculation of the tolerances of the electrical parameters
of graduated pulse-shaping lines. Trudy KAI no.73:64-73 '63.
(MIRA 17:10)

L 6302-66   EWT(1)/EWT(m)   JD

ACC NR: AP5026715   SOURCE CODE: UR/0141/65/008/005/0989/0993

AUTHOR: Lossovskiy, V. A.   2/

ORG: Kazan Aviation Institute (Kazanskiy aviatsionnyy institut)   B

TITLE: Free oscillations in a circuit with a pn junction capacitance and a non-linear inductance

SOURCE: IVUZ. Radiofizika, v. 8, no. 5, 1965, 989-993

TOPIC TAGS: pn junction, electric inductance, electric capacitance, free oscillation

ABSTRACT: In the problem of free oscillations in a circuit with a nonlinear inductance and a pn junction capacitance, a combination of approximations was used: the inductance, in the form of a generalized parameter, was characterized by a single-term exponential relation, and the Coulomb-volt characteristic of the pn junction was represented as an integrable approximation. It was found that in a

UDC: 538.565 : 539.293.011.4

Card 1/2

L 6302-66

ACC NR: AP5026715

conservative circuit with a nonlinear capacitance and a nonlinear inductance, the free oscillations are closer to sinusoidal than in the case of a circuit formed by a linear inductance and a nonlinear capacitance. This phenomenon can be utilized for offsetting nonlinear distortions in circuits with a pn junction capacitance, for example, in parametric systems. Orig. art. has: 4 figures, 21 formulas.

SUB CODE: EC/   SUBM DATE: 09Sep64/   ORIG REF: 008/   OTH REF: 000

Card 2/2

L 10544-66   EWT(d)/FSS-2
ACC NR: AP5022428   SOURCE CODE: UR/0109/65/010/009/1646/1652

AUTHOR: Lossovskiy, V. A.

ORG: none

TITLE: Transmission of pulse signals through a distributed RC-circuit which contains the nonlinear capacitance of a p-n junction [Essentials were reported at the 4th All-Union Semiconductor Conference, 24 Oct 64]

SOURCE: Radiotekhnika i elektronika, v. 10, no. 9, 1965, 1646-1652

TOPIC TAGS: pulse propagation, pn junction, pulse signal, RC circuit, signal transmission

ABSTRACT: The application of a reverse-voltage pulse to a p-n junction consisting of a high-resistivity layer deposited on a single-crystal is theoretically considered. The junction, equivalent to a distributed-parameter RC-circuit, may serve as a simulator for studying the processes of transient filtration, diffusion,

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L 10544-66
ACC NR: AP5022428

heat transfer, etc. The nonlinear-capacitance charging process is approximated by a set of quasi-linear equations and solved by the method of straight lines; a numerical method of collocation is used in the solution of a set of difference equations. The use of the resulting formulas is illustrated by examples of transmission of a linearly-rising voltage and of these pulses: $u = U_m t^\beta e^{ct}$ and $u = 1 \cdot \sin^2 (2\pi / T)t$, $0 \leqslant t \leqslant T/2$. It is inferred that: (1) The above p-n junction circuit compresses the duration of pulses and (2) The error associated with the method is determined by the error of the straight-line method and the error of collocation; smaller intervals and greater number of terms of the basic formula tend to reduce the error. Orig. art. has: 7 figures and 40 formulas.

SUB CODE: 09 / SUBM DATE: 29Jun64 / ORIG REF: 003 / OTH REF: 002

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L 02241-67

ACC NR: AR6013683   SOURCE CODE: UR/0058/65/000/010/H003/H003

AUTHOR: Lossovskiy, V. A.

TITLE: Forced oscillations in a series circuit with two essentially nonlinear elements

SOURCE: Ref. zh. Fizika, Abs. 10Zh23

REF. SOURCE: Tr. Kazansk. aviats. in-ta, vyp. 85, 1964, 45-52

TOPIC TAGS: forced vibration, circuit theory, nonlinear differential equation, pn junction, circuit design

ABSTRACT: The author investigates forced oscillations in a system with two essentially nonlinear elements. He uses a combination of approximations of the nonlinear elements, making it possible to obtain a relatively simple nonlinear differential equation for a lossy circuit; this equation is solved approximately by the method of B. G. Galerkin. An amplitude-frequency relation is obtained for a resonant circuit in a form that is determined by the values of the nonlinearity introduced for the inductance (the nonlinear capacitance of the resonant circuit is the capacitance of a p-n junction). [Translation of abstract]

SUB CODE: 20

Card 1/1

ACC NR: AP7002016   SOURCE CODE: UR/0142/66/009/005/0591/0598
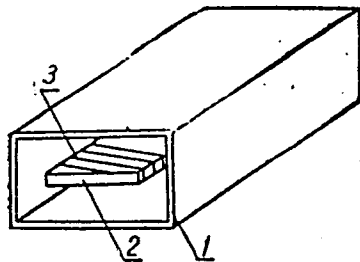
AUTHOR: Lossovskiy, V. A.

ORG: none

TITLE: Approximate calculation of distributed parameters of a flat-helical delay line

SOURCE: IVUZ. Radiotekhnika, v. 9, no. 5, 1966, 591-598

TOPIC TAGS: delay structure, delay line, circuit delay line, dielectric constant, electric inductance, electric capacitance

ABSTRACT: A shielded flat-helical delay line (see figure) is theoretically considered. Approximate formulas for distributed parameters have these forms:

for inductance $L \approx \dfrac{v_0 + v_1 + v_2 + v_3}{v_t} 4\pi \cdot 10^{-7}$ henry/m,

where v - phase velocities of propagation;

for capacitance $C = \left(\dfrac{0.0885}{H-h} \varepsilon_r hb + 4C_I' + 4C_I'' \right)$ pF/cm,

where ε_r - relative dielectric constant; h and b - width and thickness of the supporting plate, respectively; C_f' and C_f'' - capacitance components. Estimated by the above formulas, delay time and characteristic impedance (for various h) of a delay line are found to diverge by 30%

Flat-helical delay line;
1 - shield; 2 - dielectric
plate; 3 - wire helix

Card 1/2   UDC: 621.372.5

ACC NR: AP7002016

from corresponding experimental data. The formulas are claimed to be valid for calculating "close-wound" flat-helical lines intended for nanosecond delays. Orig. art. has: 5 figures and 54 formulas.

SUB CODE: 09 / SUBM DATE: 28Jun63 / ORIG REF: 006

Card 2/2

LOSSOVSKIY, Ye.K.

Estimating the accuracy of the mean velocity method in seismic
refraction prospedting. Izv.AN SSSR.Ser.geofiz.   no.9:1341-1345
S '60.   (MIRA 13:9)

1. Akademiya nauk USSR, Institut geologicheskikh nauk.
            (Seismometry)

25348

9.9865
3.9300   also 2406, 2606

S/021/61/000/007/005/011
D205/D306

AUTHOR: Lossovs'kyy, Ye.K.

TITLE: Evaluation of receiving channel sensitivity when
            graphically recording the amplitudes of seismic waves

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR, Dopovidi, no. 7,
            1961, 904 - 906

TEXT: One of the conditions to be satisfied when recording seismic
waves is equal sensitivity of all receiving channels. In practice
this is achieved by applying a control signal to all channels con-
nected in parallel with subsequent visual equalization of the gains.
-The equalization of amplifier gains does not, however, equalize
the actual sensitiveness of the receiving channels. To compensate
for this the control signal is usually recorded before the seismic
disturbance and this recording which characterizes the channel sen-
sitivity, permits the introduction of corrections into the record-
ing proper. This problem is discussed in more detail in the present

Card 1/5

25348
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Evaluation of receiving ...

article. Let the amplitude of the control signal be a_0, then the registered amplitude of this signal $A_0(X_k)$ is proportional to the amplification of the channel μ_k, so $A_0(X_k) = a_0 \cdot \mu_k$. Taking the gain of one of the channels as unity (e.g. μ_1), dividing it by $A_0(X_k)$ and taking this ratio for other channels, a series of "equalizing" coefficients

$$K_1 \approx 1, \qquad K_2 = \frac{A_0(X_2)}{A_0(X_1)} = \frac{\mu_2}{\mu_1}, \qquad K_3 = \frac{A_0(X_3)}{A_0(X_1)} = \frac{\mu_3}{\mu_1} \quad \text{etc.}$$

are obtained, which would be used to reduce the registered amplitudes to the same relative level. When the seismic wave is recorded with an amplitude A, it will be registered by different channels as

$$A'(X_1) = \mu_1 \cdot a_1, \quad A'(X_2) = \mu_2 \cdot a_2, \quad A'(X_3) = \mu_3 \cdot a_3$$

etc., where a_1, a_2, a_3 are the corresponding amplitudes on the Card 2/5

25348

Evaluation of receiving ...

entrance of each channel. In order to determine the t▓e character
of A(X) the effect of the channel sensitivity has to be eliminated
from the values obtained for A'(X); this means reducing the sensi-
tivity of all channels to one value (say μ_1) only. This can be

done by introducing the equalizing coefficient K for every channel

$$A(X_1) = \frac{A'(X_1)}{K_1} = \mu_1 \cdot a_1, \; A(X_2) = \frac{A'(X_2)}{K_2} = \mu_1 \cdot a_2, \; A(X_3) = \frac{A'(X_3)}{K_3}$$

$$= \mu_1 \cdot a_3.$$

The linearization of obtained amplitude curves may also be done
graphically by means of a "normal" hodograph. Thus two curves of
Fig. 1 may be obtained: one of the observed A(X) curve, and, to
the same scale, the graph of the relative channel sensitivity -
$A_0(X_k)$. The graph is averaged by using a straight line AB, with its
ordinate representing the relative sensitivity of that seismogram

Card 3/5

Evaluation of receiving ...

25348
S/021/61/000/007/005/011
D205/D306

channel, to which all other sensitivities have been reduced. The linearization would not change with the use of a kinematic hodograph. The above method of linearizing the amplitude curves assumes that the equalizing coefficients K do not depend on signal magnitude and may, therefore, be considered as constant. The consecutive steps in linearizing the graphs are said to be as follows: 1) On a semilogarithmic paper the amplitude graph corresponding to the intercepted wave is drawn, without taking into account the channel sensitivity; 2) In the same way a graph of known sensitivities is drawn which is afterwards averaged with a horizontal line; 3) In the last step a graphical substraction of corrections from the observed amplitude graph is done. There are 1 figure and 5 Soviet-bloc references. The report was presented by V.C. Bondarchuk, Member of the Academy of Sciences, UkrSSR.

ASSOCIATION: Institut geologichnykh nauk AN URSR (Institute of Geo-
             logical Sciences, AS UkrSSR)

Card 4/5

IOSKO VSKIY, Ye.K.

Correlation of amplitudes of flat waves in a layered medium.
Geofiz. sbor. no.3:3-12 '62.   (MIRA 15:9)
            (Seismic prospecting)

LOSSMANN, K., inz. dr.

"Collection of papers of the Higher School of Technology in
Brno." Reviewed by K. Lossmann. Vodni hosp 13 no.8:290 '63.

LOSSMAN, K.

Material for calking joints in dam structures.   p. 134.

Vol. 4, no. 5, May 1954
VODNI HOSPODARSTVI
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
         Vol. 5, No. 8, August 1956

LOSCHAN, K.

Material for calking joints in dam structures.   p. 187.

Vol. 4, no. 5, May 1954
VODNI HOSPODARSTVI
Praha, Czechoslovakia

Source: East European Accession List.   Library of Congress
         Vol. 5, No. 8, August 1956

LOSSMANN, K.

Material for calking joints in dam structures.   p. 198.

Vol. 4, no. 7, July 1954
VODNI HOSPODARSTVI
Praha, Czechoslovakia

Source: East European Accession List.   Library of Congress
          Vol. 5, No. 8, August 1956

LOSSMANN, K.

LOSSMANN, K. Testing rocks by the water-pressure method. Pt. 1. (To be
                contd.) p. 309.

Vol. 5, No. 9., Sept. 1955
Vodni Hospodarstvi
TECHNOLOGY
Praha, Czechoslovakia

So: East European Accession, Vol. 5, No. 5, May 1956

LOSSMANN, K.

LOSSMANN, K. Testing rocks by the water-pressure method. pt. 2. (Conclusion)
        p. 338.

Vol. 5, No. 9, Sept. 1955
VODNI HOSPODARSTVI
TECHNOLOGY
Praha, Czechoslovakia

So: East European Accession, Vol. 5, No. 5, May 1956

LO: :A:', K.

Size of waves on lakes and reservoirs; a discus ion on Kalal's article
in Vodni hospodarstvi, no. 10, 1955. p. 85. VODNI HOSPODARSTVI.
(Ustredni sprava vodniho hospodarstvi) raha. Vol. no. 2, Feb. 1956.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

LOSSMAN, K.

TECHNOLOGY

Periodical: VODNI HOSPODARSTVI. No. 12, Dec. 1958.

LOSSMAN, K. New findings on grouting of hydraulic structures. p. 355.

LOSSMANN, Karel, dr., inz.

      The dam construction on the Svratka River in Vir, its use
and economic value. Inz stavby 6 no.1:10-13 Ja '58.

L 39508-66   GD/JXI(EX)

ACC NR: AR6012304   SOURCE CODE: UR/0274/65/000/010/A013/A013

AUTHOR: Lossovskiy, V. P.

TITLE: Solution of some nonlinear equations that describe stationary processes in LC-circuits

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 10A94

REF SOURCE: Tr. Kazansk. aviats. in-ta, vyp. 85, 1964, 139-143

TOPIC TAGS: LC circuit, nonlinear equation, circuit design, circuit theory

ABSTRACT: A combination of approximations is suggested for solving nonlinear equations appearing in some problems; the combination reduces the solution to quadratures. In the combination, one of the system nonlinear elements is presented as a generalized, i. e., independent of the current (or voltage) amplitude, while the other nonlinear element is approximated by one of generally-known methods. This combination is applied to analyzing free oscillations in a lossless circuit that has essentially nonlinear capacitance and inductance; the same combination is used to determine a stationary process in an infinite lossless cable having essentially nonlinear distributed parameters. Bibliography of 5 titles.
L. S. [Translation of abstract]

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                                        UDC: 621.372.5/.6

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