

GAVRILOV, G.; Yakobashvili, A.

Self-dumping truck train. Avt. transp. 37 no.5:51 My '59.
(MIRA 12:8)

(Dump trucks)

GAVRILOV, G.; YAKOBASHVILI, A.

Operating self-dumping tractor trains. Avt.transp. 40 no.3:21-
23 Mr '62. (MIRA 15:2)

1. Avtokombinat No.2 Glavnogo upravleniya gruzovogo
avtotransporta Mosgorispolkoma.
(Tractor trains)

GAVRILOV, G., inzh.

Forty centuries of shellac. Durvomebel prom 7 no.6:22-23 N-D '64.

GAVRILOV, G. A.

20(7) PHASE I BOOK EXPLORATION NOV/1700

L'vov. Universitet

Materialy I Vsesoyuznogo soveshchaniya po spektroskopii, 1956. t. II: Atomnaya spektroskopiya (Materials of the 10th All-Union Conference on Spectroscopy, 1956. Vol 2: Atomic Spectroscopy) (Druzya I'd-vo L'vovskogo univ., 1958. 568 p. (Series: Ita: Fizicheskiy zhurnal, vyp. 4(9)) 3,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po spektroskopii.

Editorial Board: G.S. Landsberg, Academician, (Resp. Ed.); B.S. Reprent, Doctor of Physical and Mathematical Sciences; L.L. Pabelinskiy, Doctor of Physical and Mathematical Sciences; V.A. Fabrikant, Doctor of Physical and Mathematical Sciences; V.G. Kortakid, Candidate of Technical Sciences; S.M. Rayskiy, Candidate of Physical and Technical Sciences; L.K. Kilbovskiy, Candidate of Physical and Mathematical Sciences; V.S. Milyanukh (Deceased), Doctor of Physical and Mathematical Sciences; G. Mamberan, Doctor of Physical and Mathematical Sciences; M. J.L. Casser) Tech. Ed.: I.V. Saranyuk.

PURPOSE: This book is intended for scientists and researchers in the field of spectroscopy, as well as for technical personnel using spectrum analysis in various industries.

COVERAGE: This volume contains 177 scientific and technical studies of atomic spectroscopy presented at the 10th All-Union Conference on Spectroscopy in 1956. The studies were carried out by members of scientific and technical institutes and include extensive bibliographies of Soviet and other sources. The studies cover many phases of spectroscopy: spectra of rare earths, electromagnetic radiation, physicochemical methods for controlling uranium production, physics and technology of gas discharge, optics and spectroscopy, abnormal dispersion in metal vapors, spectroscopy and the combustion theory, spectrum analysis of ores and minerals, photographic methods for quantitative spectrum analysis of metals, methods for quantitative analysis of the degree of metal by means of isotopic tables, and the use of spectral lines, spark spectrographic analysis, statistical study of variation in the parameters of calibration curves, determination of traces of metals, spectrum analysis in metallurgy, thermochemistry in metallurgy, and principles and practice of spectrochemical analysis.

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Card 21/31

S/139/60/000/01/035/041
E201/E391

AUTHOR: Gavrilov, G.A.

TITLE: Spectroscopic Investigations of Complex Formation in the Phenol¹-nitrobenzene System

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1960, Nr 1, pp 208 - 216 (USSR)

ABSTRACT: The author obtained the ultraviolet (220-450 m μ) absorption spectra (Figures 1 and 2, Table 1) of vapours and n-hexane solutions of the system and of pure substances, using a spectrophotometer SF-4. The spectra of nitrobenzene and phenol obtained in this way agreed well with the published data (Refs 10-12). The author measured also the optical densities of several series of isomolar solutions of the system in the visible region of wavelengths (Figures 3, 4). From the visible absorption spectra the author concluded that complexes with compositions 1:1, 1:2, 2:1 are formed. The equilibrium constant ($K_1 \approx 0.05$ litre/mole) and the optical extinction coefficient ($\epsilon_1 = 2-3$ litre mole⁻¹ cm⁻¹) of the 1:1 complex in the 420-450 m μ region were obtained graphically (Figure 5 and Table 2). For the

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S/139/60/000/01/035/041

E201/E391

Spectroscopic Investigations of Complex Formation in the Phenol-nitrobenzene System

(phenol)₂:(nitrobenzene) complex the author found $K_2(\epsilon_2 = \epsilon_0)$ in the 420-430 m μ region (Figure 6 and Table 3) and $\epsilon_2 = 0.6$ at 421 m μ ; here K_2 is the equilibrium constant of the complex and ϵ_2, ϵ_0 are the optical extinction coefficients of the complex and of pure nitrobenzene, respectively. The values of $K_2(\epsilon_2 = \epsilon_0)$ were 0.0007, -0.0013 and -0.0025 for 420, 425 and 430 m μ , respectively (Table 3). Acknowledgments are made to Professor N.A. Prilezhayeva, who directed this work, and to V.I. Danilova for their advice. There are 6 figures, 3 tables and 20 references, 9 of which are Soviet, 5 English, 3 German and 3 French.

Card2/3

S/139/60/000/01/035/041

Spectroscopic Investigation of Complex ^{E201/E391} Formation in the
Phenol-nitrobenzene System

ASSOCIATION: Sibirskiy fiziko-tehnicheskii institut pri
Gor'kovskom gosuniversitete imeni V.V. Kuybysheva ✓
(Siberian Physico-technical Institute at Tomsk State
University imeni V.V. Kuybyshev)

SUBMITTED: April 24, 1959

Card 3/3

GAVRILOV, G.A.; CHANYsheva, I.S.

Studying the molecular interaction of nitrobenzene with dihydroxy-
benzenes and aniline by means of the electron absorption spectrum.
Izv.vys.ucheb.zav.;fiz. no.2:210-216 '60. (MIRA 13:8)

1. Sibirskiy fiziko-tehnicheskij institut pri Tomskom gosuniversitete
im. V.V. Kuybysheva.
(Benzene) (Aniline)

GAVRILOV, G.A.

Nature of intermolecular interaction between phenol and nitrobenzene.
Izv. vys. ucheb. zav.; fiz. no.6:173-174 '60. (MIRA 14:3)

1. Sibirskiy fiziko-tehnicheskii institut pri Tomskom gosuniversitete
imeni V.V. Kuybysheva.
(Phenol) (Benzene)

S/139/60/000/006/031/032
E201/E491

AUTHOR: Gavrilov, G. A.

TITLE: On the Nature of The Intermolecular Interaction
Between Phenol and Nitrobenzene

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,
1960, No. 6, pp. 173-174

TEXT: Electronic spectra have been used to study complex formation in phenol-nitrobenzene (Ref. 1) and dioxybenzene-nitrobenzene (Ref. 2,3) systems. The present note described an investigation of the bonding mechanism of phenol-nitrobenzene complexes using the infrared absorption spectra of solutions of phenol in carbon tetrachloride (Curve 1 in Fig. 1) and of phenol in nitrobenzene (Curve 2 in Fig. 2). The spectra were recorded in the 2.5 to 3.5 μ region, representing the fundamental valence vibrations of the OH group, using a spectrophotometer MKC-6 (IKS-6). Lack of the 2.95 μ band, characteristic of hydrogen bonding, in Curve 2 indicated that phenol-nitrobenzene complexes

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S/139/60/000/006/071/032
E201/E491

On the Nature of the Intermolecular Interaction Between Phenol
and Nitrobenzene

were formed by donor-acceptor bonds. There are 1 figure and
5 references: 4 Soviet and 1 non-Soviet (translated into Russian)

ASSOCIATION Sibirskiy fiziko-tehnicheskii institut pri Tomskom
gosuniversitate imeni V.V.Kuybysheva
(Siberian Physicotechnical Institute at Tomsk State
University imeni V.V.Kuybyshev)

SUBMITTED: April 13, 1960

Card 2/2

L 10312-63

BDS--JXT(DE)

ACCESSION NR: AP3001455

S/0187/63/000/005/0001/0008

51
49

AUTHOR: Gurevich, S. B.; Breydo, I. I.; Gavrilov, G. A.

TITLE: Signal-to-noise ratio measurement and gradation vs. frequency characteristic of photographic materials

SOURCE: Tekhnika kino i televideniya, no. 5, 1963, 1-8

TOPIC TAGS: photomaterial characteristics, Mikrat, Kinopositiv, AM-1 Kinonegativ, R-30 Ferrania Kinonegativ, Panchrom, Agfa Dispositiv, Agfa Isochrom, Agfa Gelb rapid, Agfa Astro, Ilford ordinary

ABSTRACT: Data on photonoise (granularity) and on signal-to-noise ratio for various photomaterials were practically nonexistent in the Soviet literature. The article offers a description of the apparatus used in experiments and the photonoise and signal-to-noise-ratio data for a number of Soviet and German films (Mikrat, Kinopositiv, Kinonegativ, Panchrom) and plates (Agfa, Ilford ordinary). Numbers of gradations discernible on 100- and 2,500-sq.-micron areas are given. Table 2 (see Enclosure) compares characteristics of Soviet, German, and American photomaterials. From the experimental gradation-frequency curves, it was found that the panchromatic fine-grain film, Agfa Diapositiv plates, and MZ cinema positive film have the highest resolution, while the P-10 film and Agfa Astro plates, Card 1/2

L 10312-63

ACCESSION NR: AP3001455

2

the lowest. It is claimed that the error associated with the method of noise measurement is 4-8 per cent. Orig. art. has: 11 formulas, 8 figures, and 2 tables.

ASSOCIATION: Fiziko-tehnicheskiy institut imeni A. F. Ioffe AN SSSR, Glavnaya astronomicheskaya observatoriya AN SSSR (Physicotechnical Institute, AN SSSR, Main Astronomical Observatory)

SUBMITTED: 00

DATE ACQD: 17Jun63

ENCL: 01

SUB CODE: PG

NO REF SOV: 001

OTHER: 002

Card 2/32

ACCESSION NR: AP3003607

S/0077/63/008/004/0284/0292

AUTHORS: Breydo, I. I.; Gavrilov, G. A.; Gurevich, S. B.; Markelova, A. A.

TITLE: Photographic noise and the signal/noise ratio of various photographic materials

SOURCE: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 8, no. 4, 1963, 284-292

TOPIC TAGS: photography, noise, photographic noise, signal/noise ratio, photographic material, MF 4 microphotometer, KMVL 1 quadratic millivoltmeter, M 95 microamperemeter, Agfa photo plate, Ilford photo plate, photographic film, Mikrat film, Mikrat 200 film, Mikrat 300 film

ABSTRACT: This work was carried out in order to measure the intensity of noise and the signal/noise ratio of various photographic materials. It was assumed that noise intensity was related to the granularity of material, i.e., the number of the exposed grains in a uniformly illuminated section of the film. The experimental assembly consisted of a modernized MF-4 microphotometer, a KMVL-1 quadratic millivoltmeter, and a M-95 microamperometer. Agfa plates and Ilford plates used

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ACCESSION NR: AP3003607

in astronomy and spectroscopy, and various types of films (including Mikrat films) were studied. It was established that: 1) the noise intensity showed a 3- to 4-fold variation during the transition from fine- to coarse-grained materials; 2) the strongest noise variation was observed in the negative materials; 3) noise intensity of fine-grained negative materials differed little from that of positive materials; 4) the signal/noise ratio at a given film-blackening density depended strongly on the intensity of the fog. For this reason some materials of equal granularity had different signal/noise ratios. Orig. art. has: 3 tables and 6 figures.

ASSOCIATION: Glavnaya astronomicheskaya observatoriya AN SSSR (Main Astronomic Observatory AN SSSR); Fiziko-tekhnicheskii institut AN SSSR (Institute of Physics and Technology AN SSSR)

SUBMITTED: 23Jul62

DATE ACQ: 02Aug63

ENCL: 00

SUB CODE: PH

NO REF SOV: 006

OTHER: 008

Card 2/2

GAVRILOV, G.A. (Alma-Ata)

Photographic observations of comets in 1951 at the Mountain
Observatory of the Astrophysics Institute of the Academy of
Sciences of the Kazakh S.S.R. Astron. tsir. no.149:1-2 My '54.
(Comets--1951) (MLRA 7:7)

GAVRILOV, G.A.

Observations of minor planets at the mountain observatory of
the Astrophysics Institute of the Academy of Sciences of the Ka-
zakh S.S.R. Astron. tsir. no.153:3-5 0 '54. (MIRA 8:5)
(Planets, Minor)

BREYDO, I.I.; GAVRILOV, G.A.; GUREVICH, S.B.

Measuring the "Signal-to-noise" ratio in photography. Zhur.nauch.i
prikl.fot. i kin. 7 no.3:221-223 My-Je '62. (MIRA 15:6)

1. Glavnaya astronomicheskaya observatoriya AN SSSR i Fiziko-
tekhnicheskii institut AN SSSR imeni A.F.Ioffe.
(Photographic sensitometry)

GUREVICH, S.B.; BREYDO, I.I.; GAVRILOV, G.A.

Dependence of photographic noises on the relative amount of
developed grains. Zhur.nauch.i prikl.fot.i kin. 7 no.4:306-
308 J1-Ag '62. (MIRA 15:8)

1. Fiziko-tekhnicheskii institut AN SSSR i Glavnaya
astronomicheskaya observatoriya Akademii nauk SSSR.
(Photometry) (Photographic emulsions)

GUREVICH, S.B.; BREYDC, I.I.; GAVRILOV, G.A.

Methodology for the measurement of the signal-noise ratio in photography.
Usp.nauch.fot. 10:163-170 '64. (MIRA 17:10)

Function of the distribution of the number of developed grains and
dependence of photographic noises on the optical density of blackening.
Ibid.:171-174

L 10458-67 EWT(1)

ACC NR: AP6023880

SOURCE CODE: UR/0109/66/011/007/1327/1329

AUTHOR: Peknyy, L. A.; Gavrilov, G. A.; Gurevich, S. B. 20ORG: Physico-Technical Institute im. A. F. Ioffe, AN SSSR (Fiziko-tekhnicheskij institut AN SSSR)TITLE: Measuring signal-to-noise ratio in electron-optical amplifiers 15

SOURCE: Radiotekhnika i elektronika, v. 11, no. 7, 1966, 1327-1329

TOPIC TAGS: electron optical amplifier, electronic amplifier .

ABSTRACT: To date, the noise in electron-optical amplifiers has been evaluated either qualitatively or theoretically (S. B. McLane et al., Rev. Sc. Instr., 1964, 35, 10, 1297). The present article describes the method and the results obtained in the measurement of the signal-to-noise ratio (SNR) at the amplifier output. The method is similar to that used in photography. The luminous flux at the amplifier output was varied by neutral light filters; the cell area was set by an adjustable slit; the frequency band was fixed by suitable frequency filters. This formula was used:

$SNR = (i - i_d)R / \sqrt{U_n^2}$, where i - photomultiplier current proportional to the luminous flux, i_d - dark current, R - load resistance (1 Mohm), $\sqrt{U_n^2}$ - rms noise voltage indicated by an rms millivoltmeter. It was found that the slit shape does not affect the measured SNR; the SNR value essentially depends on the slit-cut area and vary slightly with this area location. An SNR = 15 was measured in an amplifier having a gain of 8.6×10^4 , an input illumination of 0.005 lux, and an area of $0.2 \times 0.4 \text{ mm}^2$. Orig. art. has: 1 figure and 1 formula.

Card 1/2

UDC:621.317.346:621.383.8

L 10458-67

ACC NR: AP6023880

SUB CODE: 09 / SUBM DATE: 25Aug65 / ORIG REF: 003 / OTH REF: 001

21/10

GAVRILOV, G.B., Dnd Med Sci -- (disc) "On ~~the~~ neuro-humoral changes in blood transfusion and their significance in the pathogenesis of post-transfusion reactions." Khar'kov, 1951. 11 pp (Khar'kov Med Inst). 200 copies (KL, 37-59, 111)

64

GAVRILOV, G. B.

ARLOZOROV, Z.G., starshiy nauchnyy sotrudnik; SHRAGO, M.I., nauchnyy sotrudnik;
GAVRILOV, G.B.; OST, I.A.

Role of the nervous system in the mechanism of reactions following
blood transfusions. Vop.perel.krovi 4:43-50 '55. (MLRA 9:12)
(NERVOUS SYSTEM) (BLOOD--TRANSFUSION)

GAVRILOV, G. ^{B.}_{A.} - probably G.B.

FA 29/49T54

USSR/Medicine - Reproduction
Medicine - Zoology

Feb 49

"Problem of the Time of Multiplication of Amphipoda
and Isopoda of Lake Baykal," G. G. Gavrilov, Baykal
Limnol Sta, Acad Sci USSR, 4 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 5

Bazikalov had gathered material on the reproduction
time of 33 forms of Amphipoda of Lake Baykal. This
work supplements Bazikalov's, adding 20 more forms of
Amphipoda, 19 of which were not mentioned by
Bazikalov, and two forms of coastal Isopoda. Sub-
mitted by Acad D. V. Malivkin, 13 Dec 48.

29/49T54

GAVRILOV, G.B.

Propagation of the Baikal mollusk *Baicalia herderiana* Ldh. and others. Zool.
zhur. 32 no.5:840-843 S-0 '53. (MLBA 6:10)

1. Irkutskaya nauchno-issledovatel'skaya geofizicheskaya observatoriya.
(Baikal, Lake--Mollusks) (Mollusks--Baikal, Lake)

GAVRILOV, G.B.

Hydrobiological characteristics of the Tyup Bay of Lake Issyk-Kul'.
Uch.zap.Biol.-pochv.fak.Kir.un. no.4:123-124 '54. (MLRA 10:5)
(Issyk-Kul'--Fresh-water fauna)

GAVRILOV, G.B.

On the presence of the family Planorbidae in Lake Issyk-Kul'.
Uch.zap.Biol.-pochv.fak.Kir.un. no.4:125-126 '54. (MLRA 10:5)
(Issyk-Kul'--Snails)

GAVRILOV, G.B.

Zoobenthos of Tyup Bay of Lake Issyk Kul. Trudy Inst.zool.i paras.
AN Kir.SSR no.5:149-162 '56. (MLRA 10:5)
(Tyup Bay--Fresh-water fauna)

GAVRILOV, G.B.

Endemic animals of Issyk Kul (the mollusk *Caspiopsis issykkulensis*
Clessin and amphipod *Issykogammarus hamatus* Chevreux) in Tyup Bay.
Trudy Inst.zool.i paras.AN Kir.SSR no.5:165-167 '56.

(MLRA 10:5)

(Tyup Bay--Fresh-water fauna)

GAVRILOV, G.B.

Food supply of commercial fishes in Lake Issyk-kul'. Trudy Inst.
zool. i paraz. AN Kir. SSR no.6:61-66 '57. (MIRA 11:3)
(Issyk-kul', Lake--Fishes--Food)

GAVRILOV, G.B.

Endemic crustacean of Lake Issyk-Kul' from the Tyup Bay. Trudy
Gidrobiol. ob-va 8:275-277 '57. (MIRA 11:3)

1. Laboratoriya ikhtiologii i gidrobiologii Kirgizskoy AN.
(Issyk-Kul'--Amphipoda)

GAVRILOV, G.B.

Tanytarsariae in the briny waters of Lake Issyk-Kul'. Veterinaria
34 no.5:99-101 My '57. (MLRA 10:6)
(Issyk-Kul', Lake--Chironomidae)

GAVRILOV, G.B.

Rybach'ye Bay of Lake Issyk-Kul' as a place of food supply for
commercial fishes. Izv. AN Kir. SSR no.5:133-148 '58. (MIRA 11:7)
(Rybach'ye Bay--Fishes--Food)

GAVRILOV, G.B.

Larvae of Tendipedidae in Rybach'ye Gulf, Lake Issyk-Kul'.
Trudy Inst.zool.i paraz.AN Kir.SSR no.7:303-304 '59.
(Issyk-Kul'--Chironomidae) (MIRA 13:4)

YEGOROV, A.G.; GAVRILOV, G.B.; TRESHCHETENKOVA, A.A.

Observations on seasonal changes in feeding habits of the black
Baikal grayling (*Thymallus arcticus baicalensis* Dyb). Trudy
BKNII no.4:98-107 '60. (MIRA 15:3)
(Baikal, Lake--Grayling)

GAVRILOV, G.B.

Formation of benthic fauna in artificial reservoirs and some problems of the theory of evolution related to this process. Zhur. ob. biol. 22 no.3:233-240 My-Je '61. (MIRA 14:5)

1. Institute of Natural History attached to the University of Perm.
(BENTHOS) (RESERVOIRS)

GAVRILOV, G. B.; GESHVANTNER, R. A.

Transfusion of dry plasma following prolonged periods of preservation. Probl. gemat. i perel. krovi no.4:50-51 '62.

(MIRA 15:4)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta perelivaniya krovi i neotlozhnoy khirurgii (dir. - dotsent L. A. Ripyakh)

(BLOOD--COLLECTION AND PRESERVATION)
(BLOOD--TRANSFUSION)

GAVRILOV, G.B.

Polyp of a freshwater medusa *Craspedocusta sowerbii* (Lankester)
in the Kama River. Zool. zhur. 43 no.11:1713-1714 '64.
(MIRA 18:11)

1. Permskiy gosudarstvennyy universitet.

GAVRILOV, G.G., inzh.; KUTMAN, B.L., inzh.

SNATI measuring device for fuel consumption. Elek.sta. 28 no.12:11-12
D '57. (MIRA 12:3)

(Coal, Pulverized--Measurement)

KUTMAN, B.L., inzh.; GAVRILOV, G.G., inzh.; YANOCHKOV, I.Ya., inzh.

Adoption of new highly economical fans. Elek.sta. 31 no.2:
15-20 F '60. (MIRA 13:5)
(Fans, Mechanical)

MORDUKHOVICH, I.L.; GAVRILOV, G.G.; SOFRYGIN, V.P.

Drilling holes with a hydrodrill. Sbor. nauch. trud. Kaz GMI
no.19: 54-65 '60. (MIRA 15:3)
(Boring machinery--Hydraulic drive)

PROCESSES AND PROPERTIES INDEX

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CA
GAVRILOV, G. I.

Physicochemical properties of poisonous substances used in warfare. G. Gavrilov. Khimiya i Obrona 1938, No. 6, 11-13; Khim. Referat. Zhur. 2, No. 1, 113 (1939).—

The following phys. properties of the poisonous substances are described: vapor pressure, volatility, d. of vapors, adsorption by activated charcoal, color, odor, solv., and b. p., together with their significance for war use and for defense from poisonous substances. Chem. stability under storage conditions and in use, ease and velocity of hydrolysis, oxidation by O of the air, reactivity with the usual degasifiers, and the detection and the distinguishing of the poisonous are discussed. W. R. Henn

METALLURGICAL LITERATURE CLASSIFICATION

GAVRILOV, G. I., YAKUBOVICH, A. Ya., MAKAROV, S. P., GINSBURG, G. I. and MERKULOVA, Ye. N.

"Synthesis of Hetero-Organic Compounds by the Diazo Method. Synthesis of Compounds
Elements of Group IV," Dokl. AN SSSR, 72, pp 69-72, 1950

GAVRILOV, G.I.

YAKUBOVICH, A.Ya.; MAKAROV, S.P.; GAVRILOV, G.I.

Synthesis of heteroorganic compounds of the aliphatic series by the diazo method. IV. Synthesis of compounds of elements of group IV. Organotin compounds. Zhur. Obshchey Khim. 22, 1788-93 '52. (MLRA 5:11)
(CA 47 no.18:9257 '53)

GAVRILOV, G.I.

YAKUBOVICH, A.Ya.; MERKULOVA, Ye.M.; MAKAROV, S.P.; GAVRILOV, G.I.

Synthesis of heteroorganic compounds of the aliphatic series by the diazo method. V. Synthesis of compounds of elements of group IV - organolead compounds. Zhur. Obshchey Khim. 22, 2060-3 '52. (MLRA 5:12)
(GA 47 no.18:9257 '53)

GAVRILOV, G. I.

TABLE I BOOK EXCERPTION

SM/AS99

Dmit'yev, *Some aspects of spectroscopy*.
Materialy 2 Dvukhshchego simpoziuma po spektroskopii, Sverdlovsk, 1968 k.
(Materialy Dvukhshchego simpoziuma po spektroskopii, Sverdlovsk, 1968 k.
Leningrad, Metallurgizdat, Metallurgizdat, 1969, 206 p. Extra slip in-
serted, 1/200 copies printed.

Sponoring Agency: Dvukhshchiy filial Vsesoyuznogo Nauchno-Issledovatskogo Tsentra
Uralskogo nauchno-issledovatskogo tsentra.

Zhukov, I. P. *Some aspects of spectroscopy*.
Leningrad, Metallurgizdat, 1968 k.

PHOTOS: This collection of articles is intended for scientific, technical, and
theory components of the metal-working industry, geological and prospecting
organizations, and similar scientific research laboratories.

CONTENTS: The collection contains papers read at the Second Urals Conference
on the spectral analysis of ferrous and nonferrous metals and alloys, in-
cludes, steel, pig-iron, refractory and other materials used in in-
dustry. The material of the conference includes articles on the analysis
of steel (including the determination of gases), ferroalloys, nonfer-
rous and light metals and alloys, pure metals, etc. The present
volume is intended to disseminate the latest scientific results with
spectral laboratories, and to provide a basis for scientific re-
search. The author is indebted to N. N. Buravlev, about all
of the articles are accompanied by references.

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ACC NR: AM6021853

Monograph

UR/

Gavrilov, Gleb Konstantinovich

Approximation methods of analysis of transients (Priblizhennyye metody analiza perekhodnykh protsessov) Moscow, Izd-vo "Sovetskoye radio," 1966, 151 p. illus., biblio. 12,500 copies printed

TOPIC TAGS: linear aperiodic system, transient process, automatic regulation, approximation method, linear system, Laplace transform, data sampling

PURPOSE AND COVERAGE: The book provides the mathematical apparatus necessary for the analysis of transient processes in linear aperiodic systems. This apparatus may also be used for computation of nonlinear systems in which the method of piecewise linear approximation can be applied effectively. Thus, the mathematical apparatus presented in the book can be used, for example, for the computation of various sampled-data schemes or for the analysis of transient processes in automatic regulation systems. The book gives examples of the application of this apparatus for the analysis of some sampled-data schemes in semiconductor instruments. The book is intended for engineers working on the design of radio devices; it can also be used by graduate students of radio engineering departments.

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UDC: 621.3.018.782:518

*ACC NR: AM6021853

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- Ch. 7. Examples of computation of transient processes in some sampled-data schemes -- 112
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SUB CODE: 12,13/ SUBM DATE: 15Feb66/ ORIG REF: 018/ OTH REF: 001

Card 2/2

CHIRKIN, S.I.; GAVRILOV, G.M., redaktor; GLADKIKH, N.N., tekhnicheskiy redaktor

[Safety engineering in the exploitation of industrial steam boilers, vessels operating under pressure, compressors, and pipe lines]
Tekhnika bezopasnosti pri ekspluatatsii promyshlennykh parovykh kotlov, sosudov, rabotaiushchikh pod davleniem, kompressorov i truboprovodov. Moskva, Gos. izd-vo obr. promyshl., 1955. 136 p.
(MLBA 9:10)

(Pressure vessels--Safety measures)

GAVRILOV, G.M.

Substantiating the kinematics of the main drive for transverse
turning. Stan.1 instr. 33 no.6:12-15 Je '62. (MIRA 15:7)
(Lathes--Electric driving)

GAVRILOV, G.M.; RYKOV, V.Ye.

Device for controlling cooling up to 10 for metal-working tools.
Machinostroitel' no.3:29-30 No 15.

(MIRA 1957)

16(1)

AUTHOR:

Gavrilov, G.P.

SOV/20-128-1-4/58

TITLE:

Certain Conditions for Completeness in Countable-Valued Logic

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 21-24 (USSR)

ABSTRACT:

Let P_m be the set of all functions defined on the set E^m with the power m , and the values of which lie in this set. The subset \mathcal{K} is called complete system in P_m , if its closure with respect to the superposition (see [Ref 1]) is identical with P_m . The subset \mathcal{K}' is called precomplete class, if it is no complete system, but becomes a complete system by adding an arbitrary function belonging to P_m and not to \mathcal{K}' . The knowledge of the precomplete classes yields necessary conditions for the completeness of a system of functions. In the present paper the author gives two precomplete classes and formulates two criteria of completeness for special systems. Altogether there are 4 theorems. The paper is a summary of the certificate of the author (1958) and is based on the investigations of S.V. Yablonskiy [Ref 1,2].

Card 1/2

Certain Conditions for Completeness in
Countable-Valued Logic

SOV/20-128-1-4/58

The author thanks S.V. Yablonskiy. He mentions A.V.
Kuznetsov.

There are 2 tables, and 2 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
(Moscow State University imeni M.V. Lomonosov)

PRESENTED: May 14, 1959, by A.N. Kolmogorov, Academician

SUBMITTED: May 13, 1959

Card 2/2

L 1100

S/123/61/000/010/014/016
A004/A104

AUTHORS: Shibalov, I. N., and Gevrilov, G. P.

TITLE: Fabrication of steam passing parts of experimental turbines and compressors

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 10, 1961, 17, abstract 10I135 (V sb. "Issled. elementov parovykh i gaz. turbin i osevykh kompressorov". [Tr. Leningr. metallich. z-da, 5¹, Moscow-Leningrad, Mashgiz, 1960, 480-486)

TEXT: The authors report on tests of single stages up to 50 mm high and with a mean diameter of 450 mm of the experimental ЗТБ-1 (ETV-1) air turbine at a pressure of 1.5 kg/cm² and 80 °C, n = 10,000 rpm. Two rotor types are utilized - single-disk cantilever-type and multistage rotor with several shell-type disks, as well as two guiding devices - a non-detachable one and one split over the diameter. The authors describe the technology of fabricating individual components of steam passing parts, operating and guiding blades, disks, etc. There are 12 figures. B

[Abstractor's note: Complete translation]

Card 1/1

BYALIK, Lev Grigor'yevich; GAVRILOV, Georgiy Petrovich; KLENNIKOV,
Yevgeniy Vladimirovich; BELOTSERKOVSKAYA, S.I., red.;
BODANOVA, A.P., tekhn. red.

[Dump-truck trains; practice of the No.2/ Automotive Trans-
portation Combine at the Main Moscow Automotive Transporta-
tion Unit] Samosval'nye avtopoezda; iz opyta avtokombinata
No.2/ Glavmosavtotransa. Moskva, Avtotransizdat, 1963. 61 p.
(MIRA 17:3)

GAVRILOV, G.P.

Quasi-Peano behavior of functions. Dokl. AN SSSR 156 no. 5:
1011-1013 Je '64. (MIRA 17:6)

1. Smolenskiy filial Moskovskogo energeticheskogo instituta.
Predstavleno akademikom P.S.Novikovym.

GAVRILOV, G.P.

Power of sets in closed classes of finite height in P. Dokl. AN
SSSR 158 no.3:503-506 S '64. (MIRA 17:10)

1. Smolenskiy filial Energeticheskogo instituta AN SSSR. Predstavleno
akademikom P.S.Novikovym.

ACC NR: AM6027423

Monograph

UR/

Yablonskiy, Sergey Vsevolodovich; Gavrilov, Gariy Petrovich; Kudryavtsev, Valeriy Borisovich

Functions of the algebra of logic and Post's classes (Funktsii algebrы logiki i klassy Posta) Moscow. Izd-vo "Nauka", 1966. 119 p. illus., biblio., index. 10,000 copies printed.

Series note: Matematicheskaya logika i osnovaniya matematiki

TOPIC TAGS: ~~logic algebra~~, ~~logic algebra function~~, cybernetics, *algebraic logic*, *mathematic logic*, *class theory*

PURPOSE AND COVERAGE: This book is intended for all those interested in the algebra of logic and theoretical cybernetics. The work is based on Post's work in the algebra of logic and is essentially a summary of his "Two-valued Iterative Systems", first published in 1941. The general concept of proof, the formulation of many of the lemmas, and some of the reasoning is borrowed from Post's work. However, in an effort to simplify the presentation, the authors obtain a structure for closed classes of logic algebra functions which is simpler than Post's.

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UDC: 512.8+164

ACC NR: AM6027423

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SUB CODE: 12/ SUBM DATE: 11Jan66/ SOV REF: 033/ OTH REF: 017/

Card 2/2

MATUSEVICH, L.N., kand.tekhn.nauk, dotsent; GAVRILOV, G.R., inzh.

Surface polishing as a means to control wall encrustations. Khim.
mashinostr. no.2:21-23 Mr-Ap '64. (MIRA 17:4)

MATUSEVICH, L.N.; GAVRILOV, G.R.

Use of mechanical vibrations for preventing the formation
of wall-adhering deposits during crystallization. Zhur.
prikl. khim. 38 no.3:494-499 Mr '65. (MIRA 18:11)

1. Submitted July 17, 1962.

GAVRILOV, G. S.

Reason for the wilting of the hydrangea blossom. Sad. i og. No 5, 1952.

GAVRILOV, G. S.

Recent developments in floriculture; work experience of sovkhos "Likhobory" Moskva,
Ministerstvo kommunal'nogo khoziaistva RSFSR, 1953. 40 p.

GAVRILOV, G. S.

Horticulture

Using the spot seeding method of planting in flower gardening. Sad i og. No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

GAVRILOV, G. S.

Indoor lemons; from the work practice of the sovkhos "Likhobory" Moskva
Moskovskii rabochii, 1955. 42 p.

GAVRILOV, G.S.

Introducing perennial flowers in city parks. Gor.khoz.Mosk.29
no.10:30-31 0 '55. (MLRA 9:2)

1.Direktor tsvetochno-dekorativnogo kombinata "Likhobory".
(Moscow--Floriculture)

G.S. GAVRILOV

USSR/Cultivated Plants. Ornamental.

M-10

Abs Jour: Ref Zhur-Biologiya, No 5, 1958, 20610.

Author : G.S. Gavrilov
Inst : Not given.
Title : The Grenadine Carnation. (Gvozdika grenadin).

Orig Pub: Sad i ogorod, 1957, No 6, 71-73.

Abstract: The method is described of cultivating the biannual grenadine carnation which was used since 1952 by the "Likhobora" ornamental horticultural combine. The beginning of blossoming in the grenadine carnation coincides with the finishing of florescence in the Barbatus carnation and lasts 2-3 weeks up to the beginning of flowering of the Shabo annual carnation. The decorative value of the grenadine carnation is greater than that of Barbatus and is hardly inferior to the Shabo.

Card : 1/1

GAVRILOV, G.S.

Using fermented deposits from aerated fields for perennial flowers.
Gor. khoz. Mosk. 31 no.3:31-33 Mr '57. (MIRA 10:4)
(Moscow--Perennials) (Fertilizers and Manures)

GAVRILOV, G.S.

High production of plants is the basis for landscaping. Gor. (MIRA 11:7)
khoz. Mosk. 32 no.6:25-27 Je '58.
(Moscow--Landscaping) (Moscow--Nurseries (Horticulture))

GAVRILOV, G.S.

Quality of landscaping the streets of Moscow. Gor. khoz. Mosk. 32
no.9:20-23 S '58. (MIRA 11:9)
(Moscow--Landscape gardening)

GAVRILOV, G.S.

Improve landscape gardening in the new districts of the capital.
Gor.khoz.Mosk. 33 no.9:32-33 S '59. (MIRA 12:11)
(Moscow--Landscape gardening)

GAVRILOV, G.V. (Nikolayev)

Gibberellin in a vineyard. Priroda 52 no.2:80 '63.

(MIRA 16:2)

(Gibberellin)

(Grapes)

USPENSKIY, Anatoliy Anatol'yevich, kand. ekonom. nauk, dots.;
ZAMYATIN, V.N., dots. kand. ekonom. nauk, otv. red.;
GAVRILOV, G.V., red.

[Economic development of the Korean People's Democratic
Republic] Ekonomicheskoe razvitie Koreiskoi Narodno-
Demokraticheskoi Respubliki. Moskva, Vses. zaochnyi
finansovo-ekon. in-t, 1959. 19 p. (MIRA 15:2)
(Korea, North—Economic conditions)

GRAFOV, L.Ye., gornyy inzh.; GORBUSHIN, V.I., V.I.; ZARANKIN, N.Ye.;
DUDNIK, G.N.; BARONSKIY, I.V.; KOSTYUKOVSKIY, V.Ya. [deceased];
LINDENAU, N.I.; BIRYUKOV, R.A.; LISKOVETS, A.R.; MURAV'YEV,
V.P.; FESUN, V.A.; BERDYUGIN, V.A.; BEREZNYAK, M.M.; VASIL'YEV,
Ye.I.; KOLLODIY, K.K.; IL'CHENKO, D.F.; YALEVSKIY, D.B.;
GERASIMOV, V.P.; IVANOV, V.V.; GAVRILOV, G.V.; SUROVA, V.A., red.
izd-va; OSVAL'D, E.Ya., red. izd-va; PROZOROVSKAYA, V.L., tekhn.
red.

[Development and improvement in the technology of coal production]
Razvitie i sovershenstvovanie tekhniki dobychi uglia. Moskva, Gos-
gortekhnizdat, 1962. 359 p. (MIRA 16:2)
(Kuznets Basin--Coal mines and mining)

GAVRILOV, I.

On a mechanized track section. Zhel.dor.transp. no.9:77-78 S'47.
(MLRA 8:12)

1. Nachal'nik Mozhayskoy distantzii puti Zapadnoy dorogi
(Railroads--Maintenance and repair)

GAVRILOV, I., inzh.

Affairs and people of the Lukhovitsy District Highway Department.
Avt.dor. 24 no.4:4-6 Ap '61. (MIRA 14:5)
(Lukhovitsy District—Highway department)

GAVERILOV, I., inzh.

For high quality and guaranteed durability of road constructions.

Avt.dor. 24 no.9:1 S '61.

(TRA 14:10)

(Lukhovitsy--Road construction)

GAVRILOV, I.

He is already on his quota for 1964. Avt.dor. 25 no.1:13 Ja '62.
(MIRA 15:2)

(Highway transport workers)

GAVRILOV, I.; VINAROV, A.

The machinery is in reliable hands. Avt. dor. 26 no.2:7-8 F '63.
(Krasnoyarsk Territory—Road construction) (MIRA 16:4)

GAVRILOV, I.

D.N.Efanova is the best road foreman of the Kursk Province Road Administration. Avt.dor. 26 no.4:9-10 Ap '63. (MIRA 16:4)
(Kursk Province—Roads—Maintenance and repair)

GAVRILOV, I.

They are promoting the alleviation of labor and increase of its
productivity. Avt. dor. 26 no.5:24 My '63. (MIRA 16:7)

(Kursk Province—Road construction)

PRUSIKOV, V.; GAVRILOV, I.

Possibilities of additional saving. Mor. flot. 24 no.8:14 Ag '64.
(MIRA 18:9)

1. Kapitan parokhoda "Chuguyev" (for Prusikov). 2. Pervyy pomochnik
kapitana parokhoda "Chuguyev" (for Gavrilov).

GAVRILOV, I., inzh.

Accurate analysis is a certain gain. Avt.dor. 27 no.6:15-16 Je '64.
(MIRA 18:4)

GAVRILOV, I.

Active helpers of constructors and operators. Avt. dor. 27
no.9:9-10 S '64. (MIRA 17:11)

GAVRILOV, I., inzh.

Five years of persistent struggle. Avt.dor. 27 no.11:9-10 N '64.
(MIRA 18:4)

GAVRILOV, I.

Do not only inspect but help too. Avt.dcr. 28 no.11:17 N 165.
(MIRA 18:11)

1. Starshiy inzhener inspektsii tekhnicheskogo kontrolya
Ministerstva avtomobil'nogo transporta i shosseynykh dorog
RSPSR.

BYAL'SKIY, G.; ANDRIYEVSKIY, V.; GAVRILOV, I., Inzh.; STESHENKO, M.;
SIDORENKO, I.

Outstanding workers. Avt. transp. 43 no.8:6 Ag '65.
(MIRA 18:9)

L 01826-66 EWT(d)/EWT(m)/EEG-4/EWP(t)/EED-2/EWP(b) IJP(c) ID

ACCESSION NR: AP5020127

UR/0109/65/010/008/1486/1488

621.376.223.029.64

AUTHOR: Gavrilov, I. A.; Kolachevskiy, N. N.

55,44

55,44

*24
B*

TITLE: Evaluation of the noise level of a germanium injection modulator

SOURCE: Radiotekhnika i elektronika, v. 10, no. 8, 1965, 1486-1488

TOPIC TAGS: injection modulator, free hole lifetime, ferrite modulator, klystron modulator, UHF modulator

ABSTRACT: The noise characteristics and the transient and frequency response of injection modulators based on n-type Ge are investigated. Two samples in the form of rectangular prisms (35 x 5 x 3.5 mm), with resistivities of 10 ohm-cm (sample A) and 40 ohm-cm (sample B) were mounted on the opposite ends of a T-joint waveguide. The measurements were made at 9300 Mc with a modulating signal applied directly to the ohmic contacts. The pulse response of the forward biased junction indicated a free-hole lifetime of 80 μ sec for sample A and 200 μ sec for sample B. Determination of power loss as a function of

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applied d-c current I flowing through the p-n junction showed that the loss at I = 15 μ amp relative to the loss at I = 0 was 2.8 db for sample B and 0.5 db for sample A. The noise level was measured in the following fashion: First, the noise introduced by the signal detectors was calibrated by a klystron modulator modulated by a 25-cps sine wave. Next, the klystron was replaced with the semiconductor modulator (sample B) and the noise level again measured. The negligible difference ($\leq 10\%$) in readings of the noise spectral density indicates that the noise level of the injection modulators is below $5 \times 10^{-16} \text{ v}^2/\text{cps}$. Orig. art. has: 5 figures. [BD]

ASSOCIATION: none

SUBMITTED: 22May64

ENCL: 00

SUB CODE: EC

NO REF SOV: 006

OTHER: 002

ATD PRESS: 4086

Card 2/2

GAVRILOV, I.D.

Uranium production and reserves in the capitalist countries.

Razved. i okh. nedr. 30 no.6:53-62 Ja '64.

(HIRA 17:10)

GAVRILOV, I.F.

Semiautomatic device for finishing plastic articles obtained by
the molding process. Plast.massy no.5:59 '60. (MIRA 13:7)
(Plastics)

GAVRILOV, I.F.

Fighting twenty-five years for a good organization of road maintenance. Avt.dor. 28 no.3:10-11 Mr '65.

(MIRA 18:5)

GAVRILOV, I.F., inzh.

Two seven-year plans fulfilled in seven years. Avt.dor.
28 no.8:3-4 Ag '65. (MIRA 18:11)

GAVRILOV, I.G.

Capital repair of a generator rotor under conditions prevailing
at a power plant. Energetik 2 no.1:17-18 Ja '54. (MIRA 7:1)
(Dynamos)

GAVRILOV, I. G.

AID P - 2962

Subject : USSR/Electricity
Card 1/1 Pub. 29 - 12/35
Author : Gavrilov, I. G., Eng.
Title : ~~AN EXPERIMENT WITH CHLORINATION OF COOLING WATER~~
An experiment with chlorination of cooling water
Periodical : Energetik, 5, 16-17, My 1955
Abstract : The author describes the water-chlorination system
designed and built by the power station personnel
in 1940. He gives data on its satisfactory operation.
Institution : None
Submitted : No date

GAVRILOV, I.G.

We need further improvement of the biological education of secondary school students. Biol. v shkole no.2:40-42 Mr-Apr '63. (MIRA 16:4)

1. Nizhnetagil'skiy pedagogicheskiy institut.
(Biology—Study and teaching)

GAVRILOV, I.G.

Fall excursion to a forest. Biol.v shkole no.4:38-42 J1-Ag '62.
(MIRA 15:12)

1. Nizhne-Tagil'skiy pedagogicheskiy institut.
(School excursions) (Botany—Study and teaching)

GAVRILOV, I.G.

Experimental and practical work of students in a school
rabbitry. Biol. v shkole no.1:56-59 Ja-F '63. (MIRA 16:6)

1. Nizhne-Tagil'skiy pedagogicheskiy institut.
(Rabbits)
(Zoology--Study and teaching)

GAVRILOV, I. I.

A method in the theory of stability according to Lyapunov. Dokl. AN SSSR
84, No 4, 1952.