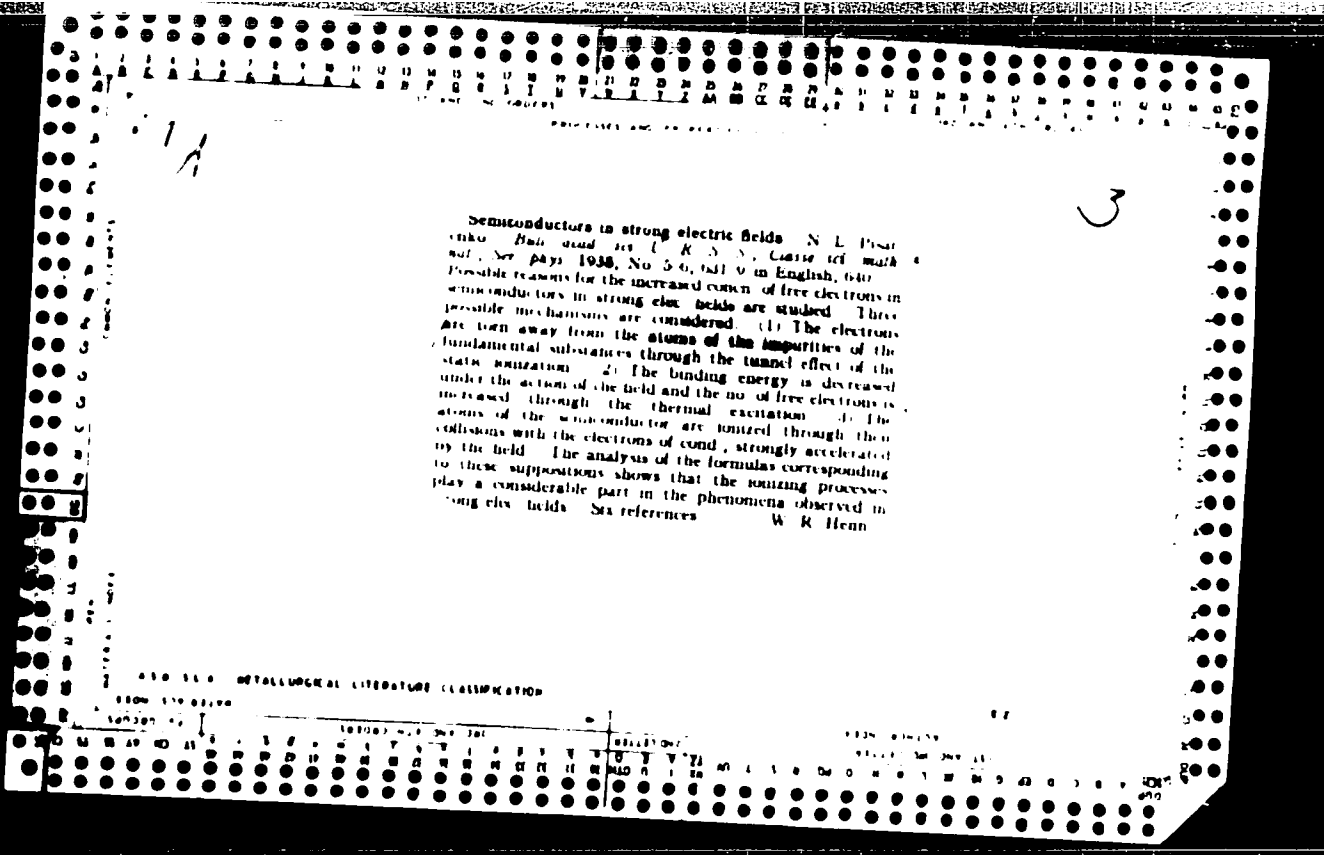
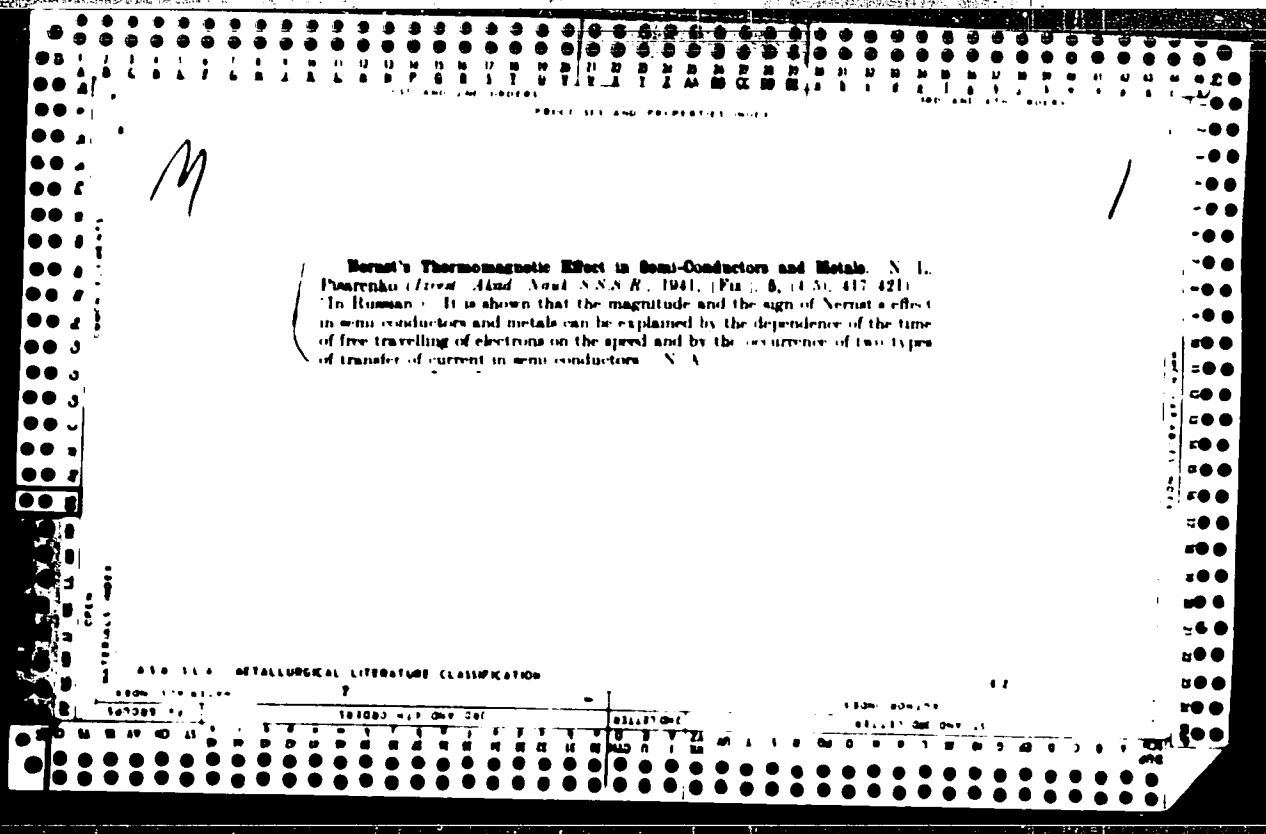
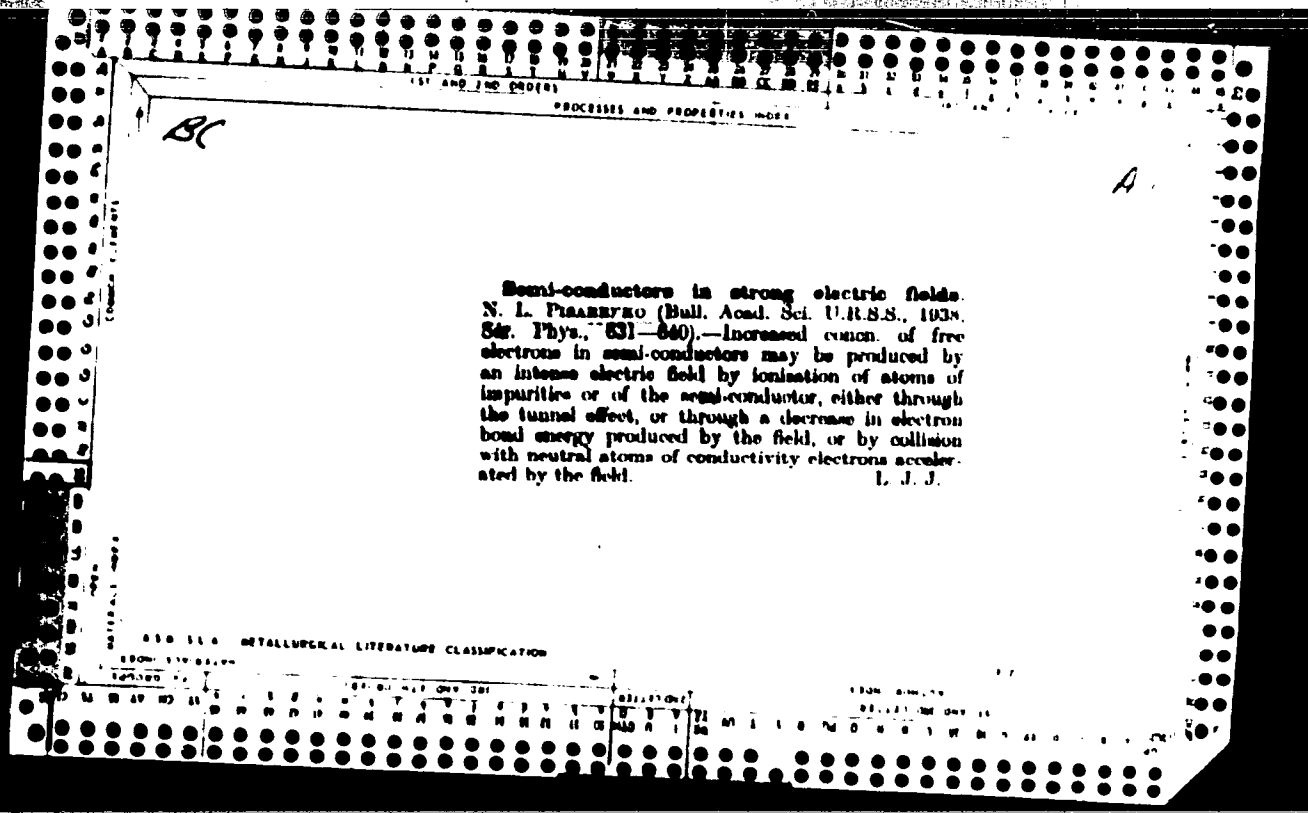


Materials & Semiconductors
Thermomagnetic Effect

1915
**Thermomagnetic Effect in Semi-Conductors
and Metals** N. F. Mott, *Phil. Mag.*, Vol. 19, No. 1, p. 109, 1915. In Russian with English summary. The magnitude as well as the sign of this effect may be explained by the nature of dependence of the temperature on the path on the velocity and by the fact that in some instances in which the effect occurs, the path is not a straight line.







YABLOKOVA, T.B., kand. med. nauk; PISARENKO, N.N.; KAKHIMOVA, N.G.

Improved methodology for the determination of the viability of the BCG vaccine. Probl. tub. no. 4: 72-77 '64.

(MIRA 18:11)

1. Laboratoriya protivotuberkuleznykh preparatov (zav. - kand. med. nauk T.B. Yablokova) Kontrol'nogo instituta imeni I.A. Tarashevicha (direktor - dotsent I.F. Mikhaylov) i Moskovskiy nauchno-issledovatel'skiy institut epidemiologii i mikrobiologii (direktor S.I. Didenko).

L 62633-65

ACCESSION NR: AP5011288

UR/0016/65/000/004/0131/0136

AUTHOR: Rozenberg, A. M.; Pisarenko, N. N.

TITLE: Golden hamster as an experimental model for the study of tuberculosis and antituberculosis vaccination

42 SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 4, 1965, 131-136

TOPIC TAGS: hamster, tuberculosis, vaccine, immunology

ABSTRACT: In a series of experiments, golden hamsters, white mice, and guinea pigs were immunized subcutaneously with 0.01 mg doses of BCG vaccine to compare survival and multiplication of the Calmette-Guerin bacilli in organs and lymph nodes. Groups of animals were killed at periods of 7 to 390 days following vaccination. Histological examination of the spleen, liver, lungs and lymph nodes, and growth of bacterial colonies in cultures taken from the animals served as indices. Additional experiments were conducted to test the specific resistance of animals to subsequent virulent tuberculosis infection. Findings show that Calmette-Guerin bacilli

Card 1/2

L 62633-65

ACCESSION NR: AP5011288

are found in the organs and lymph nodes of golden hamsters in considerable numbers during the 390 day observation period. Multiplication of the bacilli is more intensive in golden hamsters than in white mice. The golden hamster also displays high specific immunity to subsequent tuberculosis infection. The present data indicate that the golden hamster may be used as an experimental model for studying problems relating to antituberculosis vaccination, and for studying the survival of various BCG substrains and attenuated tuberculosis strains. The rapid multiplication of bacilli in the hamster permits the use of minimal doses which in turn facilitates differentiation of strains. However, the hamster is not suitable for the study of allergic skin reactions because of failure to react to tuberculin and BCG tests. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: Gosudarstvennyy kontrol'nyy institut meditsinskikh biologicheskikh preparatov im. L. A. Tarasevicha. (State Control Institute of Medical Biological Preparations)

SUBMITTED: 03Jan64

ENCL: 00

SUB CODE: LS

NR REF SOV: 001

OTHER: 013

Card 2/2 *llc*

L 11384-67 EWT(1) SCTB DD/OD

ACC NR: AT6036508

SOURCE CODE: UR/0000/66/000/000/0080/0081

AUTHOR: Buyanov, P. V.; Beregovkin, A. V.; Pisarenko, N. V.; Slesarev, V. I. 27

ORG: none

TITLE: Prolonged hypokinesia as a factor altering the functional state of the cardiovascular system in healthy humans [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 80-81

TOPIC TAGS: hypodynamia, isolation test, cardiovascular system, human physiology, space physiology

ABSTRACT: The effects of prolonged bed-rest (11-men) and water immersion (2 men) were investigated. In all, 13 experiments were conducted on 11 healthy males aged 22-26. The duration of hypokinesia was 10-15 days. Tests were conducted to evaluate the usefulness of physical exercise (4 tests) and periodic compression of the lower extremities (2 tests) to diminish the deleterious effects of hypodynamia. Examinations of peripheral hemodynamics, intracardiac dynamics, cardiac bioelectricity, contraction capacity of the myocardium of the left ventricle, and vascular tonus were conducted. This involved the use of tachooscillograms, arterial oscillo-

Card 1/3

I 11384-67

ACC NR: AT6036508

Deconditioning symptoms were less pronounced in subjects who exercised or compressed their lower extremities during hypokinesia.

The genesis of the observed shifts is complicated. Most likely, the inert state of adaptive mechanisms which regulate cardiovascular activity during transition from one level of physical activity to another is responsible. It is suggested that under conditions of prolonged hypokinesia and decreased hydrostatic pressure, proprioceptive and angioreceptive signalization is decreased, which leads to a weakening of reciprocal afferent-effector activity. Transition to activity leads to a steady recovery of these disrupted relationships. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Cord 3/3 egk

L 11364-67 EWT(1) SCTB DD/GD

ACC NR: AT6036509

SOURCE CODE: UR/0000/66/000/000/0081/0083

AUTHOR: Buyanov, P. V.; Gaikin, A. V.; Teront'yov, V. G.; Sholud'yakov, Yo. Ye.;
Pisarenko, N. V.; Yaroshenko, G. L. 32

ORG: none

TITLE: Problems of the selection of candidates for special crews [Paper presented at conference on problems of space medicine held in Moscow from 24-27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 81-83

TOPIC TAGS: cosmonaut selection, bioastronautics, space physiology, space psychology, psychophysiology, cosmonaut training

ABSTRACT: The systematic exposure of young test pilots to aviation or space-flight conditions is of importance relative to perfecting methods for selecting pilots and cosmonauts. Considering the caliber of professional activity, the test pilot must be in excellent physical and mental condition.

Selection takes place in three stages: preliminary ambulatory selection, stationary examination in special medical establishments, and elimination during the first months of occupational activity.

Card 1/3

L 11364-67

ACC NR: AT6036509

During preliminary selection, the medical commission was given documents describing anamnesis data, general and physical development, and medical treatment in the preceding year. After familiarization with these documents, nearly half the applicants were rejected due to therapeutic status or poor eyesight. During preliminary ambulatory examinations, medical specialists (therapists, otolaryngologists, neuropathologists, surgeons) analyzed blood, urine, EKG's during rest and after exercise, x-ray films of thoracic organs and nasal accessory sinuses, and conducted vestibular and other functional tests. In some cases, spinal x-rays, pressure chamber exposure, etc., were conducted.

Rejections during the first examination phase were high. The main reasons for rejection were ear, nose, and throat ailments, neurocirculatory dystonia, and vestibulo-autonomic instability.

During the stationary phase, an expanded program of clinical, physiological, and specialized tests was used. From 25 to 50% of the candidates who had passed the first phase of examinations were rejected. The main causes of rejection were diseases of internal organs (nearly half the rejects), vestibulo-autonomic instability, ear, nose, and throat diseases, and spinal disorders.

cont 2/3

D 11304-67

ACC NR: AT6031509

In recent years, rejection of candidates during the second phase has declined as a result of a more detailed examination during the first phase and new methods of examination. For instance, substitution of the standard OR-10 vestibular test with I. I. Brvanov's test (summation of vestibular stimuli during Coriolis accelerations) significantly decreased the number of rejects due to vestibular disorders. At the same time, ear, nose, and throat rejects were more accurately diagnosed by substituting otoscopy and manometric examinations (Pyachev and Gerasimov manometers) with pressure chamber tests. Spinal x-rays during the ambulatory phase could not be justified.

The occupational activity of a number of candidates produced some changes which precluded their further participation and caused their rejection from testing work. About 10% of the candidates were found to be unsatisfactory during this phase.

These data permit the examiner to foresee probable deviations in health under occupational conditions during the selection phase, to evaluate individual methods applicable to selection, and to prognose work capacity under the influence of external factors. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 05,06 / SUBM DATE: 00May66

Card 3/3/4/

DISAPPEARANCE,

... ..

... ..

PISARENKO, S.K., inzh. (Leningrad)

"Reverse" water supply with an overflow pipe in the hot
and cold water tanks. Vod. i san. tekhn. no.8:23 Ag '62.
(MIRA 15:9)

(Water-supply engineering)

PAPASOV, I. M.; PASARENKO, T. A.; PANASENKO, A.A.; KAHANOV, V.A.;
KARGIN, V. A., akademik

Nature of the initiator and the phase state of acetaldehyde are
influencing the chemical structure of macromolecules formed during
acetaldehyde polymerization. Dokl. AN SSSR 156 no. 3:66-67.
1964. (MIRA 17:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

YUDIN, Yefim Ivanovich; AFONINA, G., vedushchiy redaktor; PISARENKO, V.,
tekhnicheskii redaktor

[Moulding parts in shell molds] Otlivka detalei v obolochkovye formy.
Kiev, Gos.izd-vo tekhn.lit-ry, 1957. 69 p. (MLRA 10:9)
(Shell molding)

FIGURE 1

Kumar, M. and P. ...
...
...

(The Physics of ...
of ...)

This ...
Dielectric ...
Dielectric ...
...
...

PISARENKO, V. F.

²¹ ~~Intercrystalline layers in crystalline phosphors~~ V. F. Pisarenko (Gerasimov State Pedagog. Inst., Leningrad). ~~Zhuk. Fiz. Khim. 31, 1200-7 (1957)~~ ²⁷ ~~Physical~~ In disagreement with Shamovskii, et al. (S. A. 49, 1376-p) the author found that an x-ray exam. of AgCl(Ag) and KCl(Ag) phosphors failed to indicate the presence of any intercryst. layers. W. H. Sternberg

4
48430

AUTHOR: Pisarenko, V.F.

51-4-22/25

TITLE: Remarks on the work of Hackskaylo. (Zamechaniya o rabotakh Hackskaylo.)

PERIODICAL: "Optika i Spektroskopiya" (Optics and Spectroscopy) 1957, Vol.2, No.4, pp.538-539 (U.S.S.R.)

ABSTRACT: M. Hackskaylo and his co-workers (Phys. Rev., 87, 789, 1952); (J. Chem. Phys., 21, 1434, 1953); (J. Chem. Phys., 21, 552, 1953); (J. Chem. Phys., 23, 1363, 1955) describe metastable NaCl crystals obtained by additive colouring and subsequent electrolytic treatment. Such crystals have low density since they possess 10^{17} pairs of vacancies in 1 cm^3 . Their absorption spectrum has two weak bands with maxima at $W_1 = 226 \text{ m}\mu$ and $W_2 = 285 \text{ m}\mu$. On irradiation with X-rays or ultraviolet light these crystals become coloured with stable F-centres whose density may reach 10^{17} cm^{-3} and their ultraviolet W-bands are partially destroyed. Chemical studies have shown that metastable NaCl contains free Na (10^{17} atoms in 1 cm^3). Hackskaylo et al. regard the formation of vacancies of both types of ions as responsible for all observed effects. The present author agrees with H.F.Ivey (Phys. Rev. 88, 1434, 1952) in regarding the W_1 - and W_2 - bands as identical with the V-bands not only in NaCl, but also in

Card 1/2

Рискиа Электроды
AUTHORS: Kosman, M. S., Pisarenko, V. F. 20-4-16/60

TITLE: Phenomena within the Electrode Region in Alkali Halide Crystals at High Temperatures (Prielektrodnnyye yavleniya v suchelocno-galoidnykh kristallakh pri vysokikh temperaturakh).

PERIODICAL: Doklady Akad.Nauk SSSR, 1957, Vol 115, Nr 4, pp. 693-695 (USSR)

ABSTRACT: The investigation of the optical properties of the region near the electrode of crystals during electrolysis is of great interest. The authors investigated samples of NaCl-, KCl-, KBr- and KI-crystals. The largest surfaces of these 12x15x5 mm samples were polished and then electrodes of a 10 μ thick aluminum foil were tightly pressed to them. The samples produced in this manner were heated to constant temperatures between 450 and 600°C and exposed to a constant electric field of 50 to 400 V/cm for some minutes to one hour. In this connection the following was measured: the intensity of the current passing through and of the inverse current, the potential difference at the unshortened sample. The variations of amperage and field strength in time are illustrated by a diagram. These processes may be subdivided into two phases: In the first phase the amperage first decreases and then remains constant. The intensity of the inverse current and the potential difference at the ends of the unshortened sample attain

Card 1/2

AUTHOR: Pisarenko, V. F.

20-5-13/54

TITLE: Conductivity Variation of Potassium Bromide in Strong Fields
Within a Temperature Range of 300 - 450° C
(Izmeneniye rovodimosti KBr v sil'nykh polyakh v
oblasti temperatur 300-450°).

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 115, Nr 5,
pp. 898-900 (USSR)

ABSTRACT: The author was able to observe a considerable (100 - 1000 -
fold) increase of the conductivity of heated monocrystalline
KBr-samples without coloring in relatively strong fields
(1000 - 10.000 V/cm). On this occasion no dendrites were
produced. The method of investigation has already been
described formerly (M. S. Kosman, V. F. Pisarenko, Doklady
Akademii Nauk, 1957, Vol. 115, Nr 4), but for the
protection of the sample against breakdown a "damping
resistance" of 10⁵ Ohm was switched parallel to the sample
in the present instance. An increase of conductivity
could be observed between about 300 and 450°. At lower
temperatures the dendrites in the samples grow and at a
temperature above 450° the samples become colored. The

CARD 1/3

**Conductivity Variation of Potassium Bromide in Strong Fields
Within a Temperature Range of 300 - 450° C**

20-5-13/54

change of time of the conductivity of the sample at a constant temperature and voltage is shown in form of a diagram. Conductivity remains constant during a certain time and then increases from a 100 to 1000-fold. On the occasion of the change of the direction of the field, conductivity decreases within a second to its initial value. Passage of the current through the crystal leads to the destruction of the anode, but the cathode is not used up. The volt-ampère characteristic for the crystal with increased conductivity represents a loop-like curve which is not reproduced on the occasion of the repetition of the cycle of voltage change. The crystals with increased conductivity possess different properties than the initial crystals. The domain near the cathode is colored in a layer of about 10 microns. The corresponding absorption spectrum contains F-, M-, U-, and V-bands. These and other phenomena discussed here can be explained by means of the mechanism of electrolysis,

CARD 2/3

PISARENKO, V. F. Cand Phys-Math Sci -- (diss) "Certain electrical and optical properties of alkali-haloid crystals." Len, 1951. 7 pp (Ministry of Education RSPSR. Len State Ped Inst in A. I. Gertsen. Chair of General Physics), 100 copies (KL, 11-55, 111)

5460

68189

SOV/58-59-5-10862

Translation from. Referativnyy Zhurnal Fizika, 1959, Nr 5, p 137 (USSR)

AUTHORS Kosman, M.S., Pisarenko, V.F.

TITLE Phenomena Near the Electrodes in Alkali Halide Salts at High Temperatures

PERIODICAL V sb Fiz. dielektrikov Moscow, AS USSR, 1958, pp 89 - 93 Diskus
p 99

ABSTRACT The authors studied the absorption spectra of single crystals of KI, KBr, KCl, and NaCl which had been subjected to electrolysis at 450° - 600°C in fields ranging from 40 to 100 V/cm. They observed two phases of change in the current passing through the sample: the first phase was an insignificant initial decrease and subsequent stabilization of the current; the second phase was an increase of current, connected with a coloration of the crystal. V_2 -, V_4 -, and V_3 -bands of weak intensity were detected in samples that had undergone the first phase of change in current in the region near the cathode. After the layer near the cathode has been abraded to a thickness of ~ 0.05 mm the spectrum of the crystal becomes identical with the initial spectrum.

Card 1/2 The spectrum of samples that have undergone the second phase of change

69129

SOV/58-59-5-10862

Phenomena Near the Electrodes in Alkali Halide Salts at High Temperatures

in current consists of M-, P-, U-, and V-bands. When colored samples are switched to a circuit with a galvanometer at a high temperature, they deliver 10^{-4} - 10^{-3} coulombs/cm³ into the external circuit. In this connection the color departs from what had been the anode, and the samples become decolorized. The spectrum of decolorized crystals contains V- and U-bands. The emergence of V-centers can be explained by processes that break out in the thin layer near the cathode and on the boundary between the colored and uncolored parts of the crystal. (Pedagogich.in-t im. Gertsena, Leningrad)

V. Lozovskiy

Card 2/2

PISARENKO V. B.

AUTHORS:

Pisarenko V. B., Verbitskiy I. I., Fedoseyev I. I., Tolpygo A. B., Koshovaya V. V., Krasnopolskiy G. I.

TITLE:

Discussion of the paper by V. B. Pisarenko, I. I. Verbitskiy and A. A. Verbitskiy. A. A. Verbitskiy and Ye. A. Koshovaya V. B. Koshovaya; Ye. A. Koshovaya V. V. Krasnopolskiy and G. I. Skanava. Izvestiya Akad. Nauk SSSR Seriya Fiz. i Mat. Nauki 1979, Vol. 13, No. 4, pp. 444-445, USSR.

PERIODICAL:

Izvestiya Akad. Nauk SSSR Seriya Fiz. i Mat. Nauki 1979, Vol. 13, No. 4, pp. 444-445, USSR.

ABSTRACT:

V. B. Pisarenko discusses the paper by A. A. Verbitskiy and A. A. Verbitskiy. He maintains that in the investigation of the breakdown of sodium rock salt the influence of space charge was not taken into consideration. I. I. Verbitskiy maintains that the experiments by Pisarenko are of great importance, and little research has hitherto been conducted in this field. In the lecture by Verbitskiy and Verbitskiy the division of breakdown into two stages was not sufficiently

Card 1/3

Discussions on Lectures by: S. B. ... and A. A. Vorob'yev; L. A. ... Ye. A. Koncova V. V. Krasnopevets, and ...

proved. He considers the method by ... J. I. ... The results are ... The investigation ... cannot be ... Tokonogov ... the ... phenomena ... down. ... contests the results ... Krasnopevets, ... Baikal and ... impossible. ... thirty ... better samples ... treatment ... breakdown voltage are ... comments on the ... that the ...

Card 2/1

Discussions on Lectures by: S. R. Bragin, G. A. Vorob'yev 4-21-21, 22
and A. A. Vorob'yev; L. A. Sorokina and Ye. A. Konorova, V. I. ...
Ye. A. Konorova, V. V. Krasnopevtsev and G. I. Skinavi

breakdown proves to be of interest. The apprehensions of the
authors regarding this problem are to be noticed. Subsequently
he deals with some experiments of his own.
There is 1 figure

AVAILABLE: Library of Congress

1. Scientific report on the ...

Card 3/3

(4)

AUTHOR: Pisarenko, V. F. SCV 75-32-11-30 12

TITLE: Reply to L. M. Shamovskiy, L. M. Rodionova, G. A. Sidorenko, Yu. N. Zhvanko (Otvét L. M. Shamovskomu, L. M. Rodionovoy, G. A. Sidorenko, Yu. N. Zhvanko)

PERIODICAL: Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 11, pp 2646-2647 (USSR)

ABSTRACT: It is pointed out that in the paper (Ref 1) and the letter (Ref 2) there are two essential contradictions. One refers to the annealing temperature of NaCl and NaCl(Ag) crystals, whereas the other is to be found in the data on the sample thicknesses. Thus it is found that the data in reference 1 and reference 2 do not agree. With respect to the observations made in the paper (Ref 1) the following is found: The splitting of the Laue diagrams is carried out by a primary extinction which due to existing impurities in the sample (disturbance of the ideal lattice) is considerably decreased. This is also the case in an isomorphous "introduction" of "impurity atoms" into the basic lattice; this may be seen by the example of the radiogram of KJ-KBr in the paper (Ref 1). It is assumed that

Card 1, 2

SOV 76-52-11-30 3.

Reply to L. M. Shamovskiy, L. M. Roshanova, G. A. Sidorenko, Yu. N. Zivanko

the authors mentioned in the title observed a primary extinction in their work (Ref. 1), but that they did not realize it as such. In a note by the editors a new paper by L. M. Shamovskiy, L. M. Roshanova and A. S. Glushkova (Izvestiya AN SSSR, Ser. fizich. 12, 1968), is pointed out. There are no other references.

SUBMITTED: November 28, 1967

Card 2, 2

SOV/58-59-9-20516

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 9, p 146 (USSR)

AUTHOR: Pisarenko, V.F.

TITLE: Regularities of Behavior of Alkali-Halide Crystals in Strong Electric Fields at Temperatures of 300° to 450°C

REF ID: Zh. zap. Leningr. gos. ped. in-ta im. A.I. Gertsena, 1959, V. 1, 1, pp. 133-139

ABSTRACT: The author reports on the results of studying the irreversible increase in the conductivity of KBr when samples are kept a long time in strong electric fields at elevated temperatures (this phenomenon was observed earlier by Shefer in the case of BaTiO_3 ; cf. RZhFiz, 1955, Nr 5, 11635). Some aspects of the formation of dendrites in NaCl , KCl and KBr are also discussed. Samples with dimensions of $5 \cdot 15 \cdot 15 \text{ mm}^3$ were pricked out along the cleavage planes of single crystals grown by the Kirpoulos method. The following quantities were measured: the magnitude of the current through the sample, the voltage on it, the reverse current, the temperature of the sample, the time of electrolysis, and the spectral distribution of photoconductivity. The measurements were

SOV/58-59-9-20516

Peculiarities of Behavior of Alkali-Halide Crystals in Strong Electric Fields at Temperatures of 300° to 450°

carried out in permanent fields with a voltage of 10³ to 10⁴ V/cm and at temperatures up to 600°C. It was found that in sufficiently strong fields the current, after showing an initial diminution, does not change and then increases. Depending on the temperature, the increase in the conductivity of KCl and NaCl is caused either by the intergrowth of dendrites or by coloration. In the case of KBr (and, perhaps, KCl) three temperature regions were found, in which the increase in current, besides the "Shefer effects", is apparently also connected with processes taking place near the electrodes: the variation in thickness of the space-charge layers and the ratio between the field strengths at the cathode and the anode. The greatest increase in conductivity (by 2 to 3 times) was observed for KBr in fields of 10³ to 10⁴ V/cm at temperatures of 300° to 450°C. With a reduction of impurities in the sample the boundaries of the region shift toward the higher temperatures. Increased conductivity is annulled by a field of opposite sign. The processes in KBr are similar to the "Shefer effect" in BaTi₃.

I. F. Kalinkin

Card 1/2

S/058/62/000/006/077/136
A061/A101

AUTHOR: Pisarenko, V. F.

TITLE: Problem of the electron conductivity of KCl containing metal impurities

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 24, abstract 5E205 ("Uch. zap. Kabardino-Balkarsk. un-t", 1961, no. 13, 130 - 135)

TEXT: The conductivity, σ , of KCl crystals with Ca, Mg impurities and traces of Al, Cu, Cr, Zn, Ni, Ce, and La at 300 - 500°C has been studied. During the passage of current, σ increases rapidly, and the more so, the higher temperature and voltage. In addition, the crystal acquires a brown color (not the color of F centers). Annealing at 650°C and the commutation of current do not remove the brown color. If the crystal is heated to 500°C during the passage of current, F centers appear. No dendrites are found in the crystal, nor are there traces of electrolysis to be seen near or on the electrodes. This shows that the current is of an electron nature. The absorption spectrum of the "brown" crystal discloses a weak F band and absorption bands with maxima at 445, 390, 328, and

245 m μ

[Abstracter's note: Complete translation]

V. Yuzhakov

Card 1/1

001 010 011 012
013 014

AUTHOR: Pisarenko, V. F.
TITLE: Induced anisotropy in KBr at temperatures from 0 to 100°C
PERIODICAL: Fizika Tverkh (Solid State Physics) 1977, 10(1), 100

TEXT: Crystals were examined in the temperature range in which conductivity increases abruptly without being accompanied by any appreciable structural modification. This phenomenon had been earlier observed in KBr at 100 v were applied to single crystals (field 4 kv/cm) and the current strength in them was measured at different temperatures. A polarization-effect between 0°C and 100°C was established by simply reversing the polarity of the field. A spall is induced, a ring proceeded definite formation which took place after 100 min. At the same time chlorine separated at the anode, and thin crystal layers in front of it displayed coloring due to colloidal potassium chloride. The appearance of fluorescent pale bluish spots appeared in the layer near the cathode. On field polarity reversal, the color of spots changed. The ratio R_{after}/R_{before} varied between 0.1 and 1.0 for various specimens. It
Card 43

001 010 011 012
P. 1 B. 12

Pre-breakdown effects in KCl

dropped with progressive increase of applied voltage. The internal effects are established, the internal reversibility of the effects are irreversible and negative. The current fluctuations as represented in Figure 2 are explained by electric field interaction with the surface traps in the crystal. As a result of the interaction the current diminishes rapidly before thermal emission is relieved. Electronic escape from the traps due to field ionization. A volume charge build appears and electrons again escape from the surface. The irreversible and negative photoconductive effect is explained in a similar manner. The following is stated in reference 1: "Crystal growth is a consequence of thermionic emission from the surface. As the crystal grows, conductivity rises by a factor of 10^3 to 10^4 in the case of illumination. Conductivity is unaffected by ± 20 and ± 40 C. Specimens with an internal resistivity exhibit a positive inner photoelectric effect at room temperature. A. F. Little, R. G. Fessenden, Crystal, v. M. L. Huggins and N. A. Petrava. Report of the All-Union Conference on Photoconductivity and Photoelectron Spectroscopy, 1956. Soviet references are mentioned. There are 1 figure, 2 tables, and 1 Soviet reference."

Card 2/2

Inter-trial effect in WCI...

1007 000,002,001
1007 000

ASSOCIATION: Krasnodarskiy gos. inzh. i tekhn. institut
19. 1 -letiya VLKSM (Krasnodar State Tech. College Institute
19. 1 -letiya VLKSM

DATE: May 1, 1961

Fig. 4. Example of power current rise after a specimen.

Duration: 17 min.

✓

Card 3, 4

ACCESSION NR: AR4015632

S/0081/63/000/022/0046/0046

SOURCE: RZh. Khimiya, Abs. 22B257

AUTHOR: Pisarenko, V. F.

TITLE: The effect of an admixture of ions of the rare earth elements on the electrical conductivity of KCl

CITED SOURCE: Uch. zap. Kabardino-Balkarsk. un-t, vy* p. 16, 1962, 262-263

TOPIC TAGS: electrical conductivity, KCl conductivity, rare earth, rare earth ion conductivity, monocrystal, KCl monocrystal, KCl monocrystal Ce impurity

TRANSLATION: During cultivation of a monocrystal of KCl, incorporation of Ce is impossible, because Ce compounds are insoluble in molten KCl at about 800C. In one KCl monocrystal, left for 15 days in the crucible in which it was cultivated, Ce was discovered in a surface layer of 4 mm thickness. Samples cut from this monocrystal were colored with an F-center dye in preelectrode areas at 300-400C in a field of about 3000 v/cm. At the time of coloring the electrical conductivity of the samples increased. A change of polarity led to an increase

Card: 1/2

ACCESSION NR: AR4015632

in current, which then fell back to its original value. V. Marichev

DATE ACQ: 07Jan64

SUB CODE: CH

ENCL: 00

Card 2/2

L 57610-65 EQ-2/ENT(1)/EEC-4/EED-2/EWA(h) Pn-4/Peb./Pj-4 JM

ACCESSION NR: AP5015096

UR/0052/65/010/002/0323/0328

AUTHOR: Pisarenko, V. F. (Moscow)TITLE: Computation of the likelihood ratio for Gaussian processes with rational spectrum 27
3

SOURCE: Teoriya veroyatnostey i yeye primeneniya, v. 10, no. 2, 1965, 323-328

TOPIC TAGS: Gaussian noise, statistical analysis, random process

ABSTRACT: Let

$$r_k(x) = \left| \frac{Q_k(1\lambda)}{P_k(1\lambda)} \right|^2, \quad k = 1, 2 \quad (1)$$

where $P_k(z)$ and $Q_k(z)$ are polynomials with negative real parts by the spectral densities of two real Gaussian stationary processes $\xi_k(t)$, $0 \leq t \leq T$. Under the assumption that the measures describing ξ_1 and ξ_2 are mutually absolutely continuous, the author writes the logarithm of the likelihood ratio $L(T)$ in the form

$$\log L(T) = -\frac{1}{2} \log \prod_{i=1}^{\infty} v_{ni} + \frac{1}{2} \sum_{i=1}^{\infty} \frac{1 - v_{ni}}{v_{ni}} \eta_{ni} \quad (2)$$

Card 1/2

L 57610-65

ACCESSION NR: AP5015096

where ν_m are the eigenvalues of the operator B defined in the Hilbert space $H_1(t)$ associated with ξ_1 , by $E_1\{[B\xi]\eta\} = E_1\{\xi \cdot \eta\}$. Here η_m are independent Gaussian random variables from H_1 with unit variance, while $\bar{\eta}_m$ are from H_2 and are independent, with $\text{Var } \bar{\eta}_m = \nu_m$. He gives a simple approximate expression for $\log L(T)$, as well as a method for computing the first and second summands in (2), different from that of J. Hájek (On linear statistical problems in stochastic processes, Chekhosl. matem. zh., 12, 3 (1962), 404-444). Orig. art. has 13 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MA

NO REF SOV: 003

OTHER: 004

Card 2/2

PISARENKO, V.F.; ROZANOV, Yu.A.

Some problems for steady-state processes leading to integral
equations related to Wiener-Hopf equations. Probl. pered.
inform. no.14:113-135 '63. (MIRA 16:12)

PISARENKO, V.F.

Wiener-Hopf type of equation for n-dimensional random processes
with rational spectral density. Dokl. AN SSSR 149 no.4:776-779
Ap '63. (MIRA 16:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavleno akademikom A.N.Kolmogorovym.
(Differential equations) (Random processes)

L 9018-65 EWT(d)/T IJF(s)/ASD(a)-5/RAEM(t)/AFWL/ESD(t)

ACCESSION NR: AR4043052

8/0044/64/000/006/v026/v026

SOURCE: Ref. zh. Matematika, Abs. 6V148

AUTHOR: Pisarenko, V. K. BTITLE: Estimation of parameters of the Gaussian stationary process with spectral density $|P(i\lambda)|^{-2}$ 16

CITED SOURCE: Lit. matem. sb., v. 2, no. 2, 1963, 159-167

TOPIC TAGS: Gaussian stationary process, spectral density, polynomial, complex variable, maximal probability condition, asymptotically normal distribution

TRANSLATION: This is an examination of the Gaussian stationary process t with spectral density $|P(i\lambda)|^{-2}$, where $P(i\lambda)$ is a polynomial with the real coefficients p_0, p_1, \dots, p_{n-1} whose root lies in the upper half-plane of the complex variable λ . Properties are studied of the estimate of maximal probability \hat{p} , of the parameter

$$p = (p_0, p_1, \dots, p_{n-1}), P \in P.$$

Card 1/2

L 9018-65

ACCESSION NR: ABA043052

to be determined by realizing the process ξ_t on the segment $(0, T)$. Here P is the limited region in the n -measuring space, the end of P lying in the lower range of the possible values of parameter p . It is shown that if $T \rightarrow \infty$ an estimate of maximal probability exists which has a probability very close to unity; this is evenly asymptotically normal and asymptotically efficient over the whole $p \in P$. Another estimate, \hat{p}_T , is also presented; this is also asymptotically normal and asymptotically efficient; however, in contrast to \hat{p}_T , it is determined from the system of n linear equations and depends only upon a sufficient statistical values. A means is shown to compute probable ranges for the parameter p . The question of estimating some function $f(p)$ from the parameter is discussed. Similar results are formulated for the process with discrete time. M. Fortus

SUB CODE: PMA

ENCL: 00

Card 2/2

ACC NR: A16093089

SOURCE CODE: UR/3231/66/000/001/0150/01-5

Исследование влияния особенностей станций на точность определения параметров землетрясений

Исследования

ABSTRACT: The effect of such factors as the station and the focus on the accuracy of determination of seismic parameters.

SEARCH: AN SSSR. Institut fiziki Zemli. Vsesoyuznaya seysmologiya, No. 1, 1966. Analiz seysmicheskikh nablyudeniy na elektronnykh mashinakh. (Use of electronic computers in the analysis of seismic observations), 169-180.

TOPIC TAGS: earthquake, seismologic station, seismicity, statistic analysis

ABSTRACT: The recording of earthquakes differs at every individual station owing to some unknown local features and other variables, this causes distortion of the recorded period. Another disturbing factor is the earthquake focus, which generates observations with a particular inherent period. In this connection the author presents a new, more accurate statistical method of evaluating the accuracy of the averaging of measurements, based on analysis of variance and the Fischer test. A quantitative measure of the proportion of the effect of specific factors (features of the focus γ_f , features of the station γ_{st} , gaussian noise

word 1/2

ACC NR: AT0003669

γ_{ξ}) on the scatter of observational findings is introduced. This measure is determined from the formula $\gamma_{\xi} = \frac{s_{\xi}^2}{s^2}$, where s_{ξ}^2 is the variance due to this particular scatter and s^2 is

the total variance of the individual measurement. It is shown that a large number of averaged measurements is not necessarily required for a high accuracy of the results of the averaging. On estimating by means of prior sampling the variance s^2 of the individual measurement and the degree of influence of one random factor or another, γ_{ξ} , γ_{η} , γ_{ϵ} , it is possible to opt-

imally organize the selection of material for further observations. Orig. art. has: 31 formulas, 4 tables, 1 figure.

SUB CODE: 08, 212/ / SCRM DATE: none/ ORIG REF: 005/ OTH REF: 001

Cord 2/2

ACC NR: AT6033696

SOURCE CODE: UR/3231/66/000/002/0150/0182

AUTHOR: Pisarenko, V. F., Rautian, T. G.

ORG: none

TITLE: Statistical classification by several characteristics [Pattern Recognition]

SOURCE: AN SSSR. Institut fiziki Zemli. Vychislitel'naya seismologiya, no. 2, 1966.
Mashinnaya interpretatsiya seismicheskikh voln (Machine interpretation of seismic waves),
150-182

TOPIC TAGS: earthquake, seismic wave, statistic analysis, pattern recognition, seismology

ABSTRACT: A convenient and practical method of statistical discrimination, dispensing with the enormous number of observations that would otherwise be required when applying the Neyman-Pearson test to seismological problems, is proposed. The determining quantity in this method is "a posteriori" probability, calculated on assuming independence of parameters, thus reducing sharply the required amount of source data ("learning material"). The application of this method is illustrated by showing how deep earthquakes can be distinguished from shallow earthquakes according to dynamic characteristics of the tracing. 50 tracings each of deep ($H > 50$ km) and shallow (with foci within the earth's crust) earthquakes are employed as

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ACC NR: AT6033696

the learning material. Four parameters are considered, (apparent oscillation frequency f_p of P-waves; apparent oscillation frequency f_s of S-waves, time t_{max} between first arrival and maximum amplitude of P-waves, ratio A_p/A_b between maximum amplitude of P waves and mean amplitude of the "background" of oscillations in the interval between P- and S-wave groups), of which two (f_s and f_p) are linked by linear correlation to a correlation factor of the order of 0.6. It is shown that this correlation may be disregarded without detriment to soundness of discrimination, i.e. to percentage of erroneous solutions. It is estimated that, with respect to the characteristics considered, deep earthquakes can be correctly distinguished from shallow earthquakes in $87 \pm 3\%$ of cases. Orig. art. has: 6 figures, 6 tables, 16 formulas

SUB CODE: 08, ~~12~~, 09 ~~10~~ / SUBM DATE: none / ORIG REF: 007 / OTH REF: 003

Card 2/2

8603P

6.8000 (3201, 1099, 1162)

AUTHORS: Brekhovskikh, L. M. (Corresponding Member of the A. S. U. S. S. R. Academy of Sciences), Yevlachev, V. A., Makarov, S. S., and Filaretov, V. P.

TITLE: Vertical Profile of Sound Propagation Velocity in the Ocean

PERIODICAL: Doklady Akademii Nauk SSSR, 1986, Vol. 271, No. 1, pp. 116-119

TEXT: The authors describe a new method of determining the sound velocity in dependence of the depth of the ocean using the so-called "characteristic points". The ocean depth is divided into a certain number of layers taking their physical and chemical characteristics into account. Each layer is characterized by a curve which characterizes the mutual dependence of sound velocity and depth is approximated by a broken line, where the dz gradient is constant within each individual layer. c is the sound velocity, z is the ocean depth). The salient points of this curve are the characteristic points in the c - z plane, for which the mean depth and the sound velocity are determined. By changing in time the curve $c = c(z)$ a family of curves is obtained which describe the actual conditions much better especially.

Card 1 of 1

86038

Vertical Profile of Sound in the Ocean
Velocity in the Ocean

8/13/60

when there are sharp deviations in the velocity gradient. The new method is advantageous through these parameters and is analyzed in the present paper. The authors were able to determine two types of vertical distribution of the sonic velocity in a 10 degree square of the North-west Atlantic. The warm Gulfstream influences the first distribution type and is divided into five layers. The cold Labrador stream influences the other distribution type and can be divided into four layers. Fig. 1 shows the distribution types. The authors thank V. Ya. Talkachyov, G. I. Merkulov, N. P. Markova, and N. A. Smirnova for the calculations done. The Gosudarstvennyy kuanograficheskiy Institut (State Institute of Oceanography) is mentioned. Legend: Fig. 1. A is the first type of the velocity distribution and B the second. There are 2 figures and 1 table of references.

ASSOCIATION: Akusticheskiy Institut Akademii Nauk SSSR (Institute of Acoustics of the Academy of Sciences, USSR)

SUBMITTED: August 10, 1960

Card 1 of 1

109

6.9460

S/109/61/006/004/003/025
E140/E163

AUTHOR: Pisarenko, V.F.

TITLE: The detection of a random signal on a noise background

PERIODICAL: Radiotekhnika i elektronika, Vol.6, No.4, 1961,
pp. 514-528

TEXT: The author considers the case where both the signal and noise are random processes. Previous treatments of such problems have studied the values of the process observed at discrete time intervals. The detection characteristics have, as a rule, only been obtained in explicit form where the values of the observed process at the times of observation could be considered independent. The author attempts to solve the problem where all values of the observed process in a certain time interval are available. While the continuous process could be assumed as the limit of a discrete process as the points of observation increase in number, for correlated quantities the calculations are in principle difficult. In effect, it is necessary to invert a matrix of order n , where n is the number of discrete times of observation. On the other hand, with continuous observation, the problem reduces
Card 1/3

22889

S/109/61/006/004/003/025

The detection of a random signal.. E140/E163

to finding the characteristic numbers of certain integral equations, and to the solution of these equations, in which the author has succeeded for certain classes of signals and noise. While it is intuitively clear that the information of a given realisation of a process is more completely used in continuous observation than in discrete observation, the author makes no quantitative comparisons since the results for discrete observation have not been calculated. However, where the distance between the points of discrete observation are much smaller than the correlation intervals of the signal and the noise, it could be assumed that the real detection characteristics for the two cases are the same. The formulae derived in the paper appear to the author to be original, but he indicates that the derivations are not rigorous, and this question should be examined later. Acknowledgements are expressed to R.L. Dobrushin who directed the work, and to M.A. Isakovich for his remarks during the discussion. There are 14 references: 5 Soviet and 9 English.

Card 2/3

1282

109/61/006/004/03/025
E140/E163

The detection of a random signal on a noise background

ASSOCIATION: Mekhaniko-matematicheskii fakul'tet Moskovskogo
gosudarstvennogo universiteta im. M.V. Lomonosova
Kafedra teorii verovatnostey
(Division of Mechanics and Mathematics of Moscow
State University imeni M.V. Lomonosov,
Department of Theory of Probabilities)

SUBMITTED: December 3, 1959

Card 3/3

PISARENKO, V.I.; RABINOVICH, L.G.; KORNETSKAYA, L.S.

Authors' abstracts. Zhur.mikrobiol., epid. i immun. 42 no.2:143
F '65. (MIRA 18:6)

1. Dushanbinskiy institut epidemiologii i gigiyeny.

PISARENKO, F.S.; PISARENKO, V.I.

New variants of a nutrient medium used in the bacteriological
diagnosis of whooping cough. Zdrav. Tadz. 7 no. 3:42-44 My-Je
'60. (MIRA 14:4)

1. Iz Stalinabadskogo instituta epidemiologii i gigiyeny.
(BACTERIOLOGY—CULTURES AND CULTURE MEDIA)
(WHOOPING COUGH)

PISARENKO, V.I. : YELFIMOVA, V.Z

Immunological indications in the descendants of animals immunized with
whooping cough vaccine. Zhurn. Tadz. no.1:32-35 Jan. 1964.
(114 114)

1. Iz Dushanbinskogo instituta epidemiologii i fiziologii
(WHOOPING COUGH)

FISARENKO, V. I.

FISARENKO, V. I. -- "Agglutinins in Dysentery of Children. based on Material from the City of Stalinabad." Samarkand State Medical Inst Imeni Academician I. P. Pavlov. Stalinabad, 1955. (Dissertation for the Degree of Candidate in Medical Sciences).

So.: Knizhnaya Letopis', No. 6, 1956.

SHAPIRO, S.Ye.; PISARENKO, V.I.

Widal's reaction in paratyphoid fever patients treated with
levomycetin and synthonycin. Zhur. mikrobiol. epid. i immun. 27
no.2:64 P 156. (MLRA 9:5)

1. Is Tadshikskogo instituta epidemiologii, mikrobiologii i
gigiyeny.
(PARATYPHOID FEVER) (ANTIBIOTICS)

PISARENKO, F.S.; PISARENKO, V.I.

Dry bean hydrolysate medium with albumin for the cultivation of the
causative agent of whooping cough. Zbirav. Tadzh. 8 no.4:43-44 JI-
Ag '61. (MIRA 14:10)

(BACTERIOLOGY—CULTURES AND CULTURE MEDIA)
(WHOOPING COUGH)

SHVIDENKO, V.I.; AL'PEROVICH, S.Z., redaktor; PISARENKO, V.I.,
tekhnicheskii redaktor.

[Selecting machinery for the installation of structural units]
Vybor mashin dlia montazha stroitel'nykh konstruktsii. Kiev,
Gos. izd-vo tekhnicheskoi lit-ry USSR, 1953. 73 p. [Microfilm]
(Building machinery) (Cranes, derricks, etc.) (MLRA 7:12)

PL. APENK, V.K

Table for calculating the velocity of waves in the admittance
of a... .. V...

PISARENKO, V.N.; POGORELOV, A.G.; NOVIKOVA, L.A.; IVANOVA, N.G.;
KONONOV, N.F.

Use of multiple regression equations for the quantitative
analysis of heterogeneous catalysis. Zav.lab. 30 no.3:316-337
'64. (MIRA 17:4)

1. Institut organicheskoy khimii AN SSSR.

СМЕРТ, 4.3., инт.; СМЕРТ, 4.3., инт.; СМЕРТ, 4.3., инт.

highly maneuverable driving part of a track. 88 manipulator.
Vest.mashinostr. 46 no.142-45 7a '66.

MIRONOV, V.F.; PETROV, A.D.; PISARENKO, V.V.

High temperature condensation of alkylchlorosilanes with
chloroolefins. Dokl. AN SSSR 124 no.1:102-104 Ja '59.

(MIRA 12:1)

1.Chlen-korrespondent AN SSSR. (for Petrov). 2.Institut organiches-
koy khimii imeni N.D. Zelinskogo AN SSSR.

(Silane) (Olefins)

(Condensation products (Chemistry))

... ..

... ..
... ..

5(3)

AUTHORS: Mironov, V. F., Ietrov, A. D., SOV/26-124-1-28/69
Corresponding Member, AS USSR, Pisarenko, V. V.

TITLE: High-Temperature Condensation of Alkyl Dichloro-Silanes With
Chloroolefins (Vysokotemperaturnaya kondensatsiya alkildikhloro-
silanov s khlorolefinami)

PERIODICAL: Doklady Akademii nauk SSSR, 1969, Vol 124, Nr 1, pp 102-104 (USSR)

ABSTRACT: The authors present a survey of publications (Refs 1-4) re-
garding the reaction mentioned in the title. In the present paper
it was established that not only $(\text{CH}_3)_2\text{Cl}_2\text{SiH}$ with vinyl chloride
is condensed at 600° to give vinyl methyl-dichloro-silane but
that also $(\text{C}_2\text{H}_5)_2\text{SiCl}_2\text{H}$ with vinyl chloride gives vinyl ethyl-
dichloro-silane in a 27% yield. This was possible not only in a
glass tube but also in an iron tube without considerably affect-
ing the yield. Trialkyl silane, however, cannot be condensed with
vinyl chloride as this reaction proceeds according to another
scheme. The author further found that the condensation of
 $(\text{CH}_3)_2\text{Cl}_2\text{SiH}$ both with cis and trans-dichloro-ethylene gives
the same results, namely 20% yields of $\text{Cl}_2(\text{CH}_3)\text{SiCH}=\text{CHSi}(\text{CH}_3)_2\text{Cl}_2$
(structure proved by means of methylation and Raman spectra)

Card 1/3

High-Temperature Condensation of Alkyl Dichloro-Silanes With Chloroolefins

SOV/20-124-1-28 '69

taken and interpreted by L. A. Leytes and Yu. P. Yegorov).

Irrespective of the fact whether methyllyl chloride or isocrotyl chloride was used for the condensation,

$\text{Cl}_2(\text{CH}_3)\text{SiCH} = \text{C}(\text{CH}_3)_2$ (about 13%), small amounts of

$\text{Cl}_2\text{CH}_2\text{SiCH}_2\text{C} = \underset{\text{CH}_3}{\text{CH}_2}$ as well as a mixture of xylenes

were isolated on the whole. Allyl chloride can be condensed also with methyl dichloro-silane and forms (30% yield) allyl methyl dichloro-silane. A small amount (in the iron tube a larger one) of propenyl methyl dichloro-silane is then the result. Chloro-aryls can be condensed in an analogous manner, but the saturated halogen alkyls are not able to condense with hydric silanes. Surprisingly, $(\text{CH}_3)_2\text{Cl}_2\text{SiH}$

reacted with ethylene, mainly vinyl methyl dichloro-silane (14% yield) was formed. A condensation of $\text{ClCF} = \text{CF}_2$ with

$(\text{CH}_3)_2\text{Cl}_2\text{SiH}$ ~~forms~~ flames and a detonation broke out in

the tube above 500° , thus often causing the tube to be destroyed.

Card 2/3

High-Temperature Condensation of Allyl Dichloro-
Silanes With Chloroolefins

SIV, No-124-1-16, 69

A fraction 97 - 100° could however be isolated which probably (according to **KRS** spectrum) contains $(CH_3)_2Cl_2SiCF = CF_2$. There are 10 references, 6 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: June 19, 1958

Card 3,3

L 36298-65 EWT(m)/EPF(c)/EPR/ENP(;) /T Pc-4/Pr-4/Ps-4 RPL Wm/RM
ACCESSION NR: AP5008487 8/0078/65/010/003/0712/0714

AUTHOR: Tolatoguzov, V. B.; Pisarenko, V. V.; Kireyev, V. V.

27
B

TITLE: (Phenoxy)triphosponitrile chlorides

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 3, 1965, 712-714

TOPIC TAGS: (phenoxy)triphosponitrile chloride synthesis, (phenoxy)triphospho-
nitrile chloride property

ABSTRACT: Mono-, bis-, tris- and tetrakis(phenoxy)triphosponitrile chlorides,
not previously described, have been synthesized from the trimer of phosphonitrile
chloride and alkali metal phenolates in benzene or toluene solution. The prepara-
tion conditions, yields, compositions, and constants of the synthesized compounds
are given. Their IR spectra were taken and interpreted. Orig. art. has: 1 figure
and 2 tables. [B0]

ASSOCIATION: none

SUBMITTED: 15Apr64

ENCL: 00

SUB CODE: GC

NO REF SOV: 001

OTHER: 008

ATD PRESS: 3220

Card 1/1 } 0

ПИСАМЕНКО, Л.Л.

VISHNEVSKAYA, S.M.; UDOVICHENKO, G.S.; BIRYUKOVA, K.V.; GHRGIL'SKIY, V.L.;
MUKVOZ, L.G.; RUBNITSKAYA, N.B.; KORNIYENKO, Ye.I.; GUREVICH, Ye.N.;
PISARENKO, Ye.L.; GELLER, I.Yu.; LOI, T.D.; SHEVCHUK, M.K.;
KHALIBOVA, Ye.K.

Epidemiology and prevention of helminth infections in the region of
construction of the Kakhovka hydroelectric project and the South
Ukrainian Canal. Med. paras. i paras. bol. no.3:244-248 J1-S '54.
(MLRA 8:2)

1. Iz gel'mintologicheskogo otdela Ukrainskogo nauchno-issledovatel'-
skogo instituta malyarii i meditsinskoy parazitologii imeni prof.
Rubashkina (dir. instituta I.A.Demchenko, sav. otdelom prof. Ye.S.
Shul'man), iz epidemiologicheskogo otdela Kiyevskogo instituta
epidemiologii i mikrobiologii (dir. instituta S.N.Terekhov, sav.
otdelom otsent Yu.Ye.Birkovskiy), iz kafedry biologii i parazitologii
Dnepropetrovskogo meditsinskogo instituta (sav. kafedroy dotsent V.L.
Gerbil'skiy), iz Zaporozhskoy oblastnoy protivomalyariynoy stantsii
(sav. stantsiyey I.P.Agafonov), iz Dnepropetrovskoy oblastnoy protivomalyariynoy stantsii (sav. stantsiyey M.K.Shevchuk, iz Nikolayevskoy oblastnoy protivomalyariynoy stantsii (sav. stantsiyey S.I.Ganyuni).
(HELMINTH INFECTIONS, prevention and control,
Russia, on construction of waterways)

PISARENKO, Ye. I.

VISHNEVAKAYA, S.M.; SHEVCHUK, M.K.; KRAMARENKO, D.P.; KHVALIBOVA, B.I.;
MUKVOZ, L.G.; GUREVICH, Ye.P.; KORNIYENKO, Ye.I.; POTEYEVA, N.A.;
PISARENKO, Ye.I.; LOY, D.D.; KORABLEV, N.G.; GELLER, I.Yu.

Epidemiology and prevention of helminth infections in the zone
affected by the construction of Kakhovska reservoir and hydro-
electric station and the Upper-Ingulets Canal. Med.paraz. i paraz.
bol. 25 no.2:121-127 Ap-Je '56. (MLRA 9:8)

1. Iz gel'mintologicheskogo otdeleniya Instituta malyarii i meditsin-
skoy parazitologii imeni prof. V.Ya.Rubashkina Ministerstva zdravo-
okhraneniya Ukrainskoy SSR (dir. instituta I.A.Demchenko, zav.
otdeleniyem - prof. Ye.S.Shul'man) i Dnepropetrovskoy Zaporozhskoy,
Khersonskoy, Nikolayevskoy oblastnykh sanitarno-epidemiologicheskikh
stantsiy.

(HELMINTH INFECTIONS, prev. and control
in Russia, eff. of reservoir & canal constructions)

PISARENKO, B.Ye.

Kherson shipbuilding yard is 150 years old. Rech.transp. 15 no.7:
29-32 J1 '56. (MLRA 9:9)
(Kherson--Shipbuilding)

L 32203-65 EWP(k)/EWT(d)/EWP(h)/ENA(d)/EWP(l)/EWP(v) Pf-4 GS
ACCESSION NR: AT5005422 S/0000/64/000/001/0041/0042

AUTHOR: Ramanko, S. D.; Pisarenko, Yu. V. 2/871

TITLE: An automatic recorder of the temperature dependence of electrical conductivity 10

SOURCE: Nauchnaya konferentsiya molodykh uchenykh Moldavii, 3d. Trudy, no. 1: Yestestvenno-tekhnicheskiye nauki (Natural and technical sciences), Kishinev, Gosizdat Kartya Moldovenyashke, 1964, 41-42

TOPIC TAGS: electrical conductivity, automatic conductivity meter

ABSTRACT: The design and operation of an automatic recorder of the temperature dependence of electrical conductivity is described. It consists of a sample holder with a thermocouple (1), and EPP-09 automatic recording potentiometer (2), a hyperbolic converter (3), a logarithmic amplifier (4), and an EO-7 cathode ray oscilloscope (5) with a photographic attachment (see Fig. 1 of the Enclosure). The article shows the logarithmic stage and hyperbolic converter circuits. Orig. art. has: 3 figures.

ASSOCIATION: None

Card 1/3

L 32203-65

ACCESSION NR: AT5005422

SUBMITTED: 07 Feb 64

ENCL: 01

SUB CODE: EE

NO REF SUV: 000

OTHER: 000

Card 2/3

L 32203-69

ACCESSION NR: AT5005422

ENCLOSURE: 01

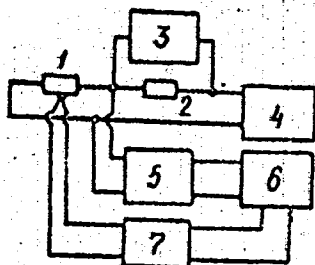


Figure 1. Block diagram of the automatic conductivity recorder.

Card 3/3

PISARENKO, Zh.G.; SHEYNKMAN, M.K.

Etching method to reveal dislocations in CdS single crystals. Fiz.
tver.tela 3 no.4:1152-1157 Ap '61. (MIRA 14:4)

1. Institut fiziki AN USSR, Kiyev.
(Dislocations in crystals) (Cadmium sulfide crystals)

SUKHOVERKHOV, F. M., KOROLEVA, V. M., LISARENKOV, A. S.

Fish Culture

Breeding sterlets in ponds, Ryb. khoz., 28 No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1954, Incl. 2

22052

S/181/61/003, 014, 18, 03
B102/3214

24.7500 (1136, 1143, 1160)

AUTHORS: Pisarenko, Zh. G. and Sheynkman, M. K.

TITLE: Visualization of dislocations in CdS single crystals
by etching

PERIODICAL: Fizika tverdogo tela, v. 3, no. 4, 1961, 1152-1157

TEXT: It is known that on the (0001) plane of CdS single crystals, etch patterns of hexagonal form appear, which are attributed to dislocations. However, no methods of visualizing this for other planes, e.g., (11 $\bar{2}$ 0) or (10 $\bar{1}$ 0) are known. Such a method is suggested here. The CdS single crystals were obtained by synthesis and sublimation. First, their orientation was determined by X-rays. They were, for the most part, plane-parallel plates (5 x 3 x 0.01 mm) which were partly smooth like glass and partly striated. Some diverged from this orientation by a few minutes up to 15°. Before and after etching the surfaces were studied by metallographic microscopes, MPM-5 (MIM-5) and MPM-8 (MIM-8), visually and by means of microphotos. The best results were obtained by etching in hot hydrochloric acid vapor. Concentration of the acid,

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S/181/61/003/000/18,
R102/B214

Visualization of dislocations ...

temperature, and duration of etching were varied to determine the optimum conditions. It was found that the results were most favorable under the following conditions: The crystals were exposed to vapor for 1-1.5 min at 100°C and placed 4-5 cm above the acid surface; the acid concentration was 25-30%. After etching the crystals were rinsed in water. During etching the crystals were placed in a fine molybdenum net. The relationship between etching pits and dislocations was also investigated. The following conclusions were drawn: As in many other crystals, the etching pits are arranged in terrace form, their shape depending on the face indices. If the etching time is extended, no new pits will appear. This indicates that the etching pits correspond to dislocation lines. On studying thin crystals (up to 10 μ) it was found that the etching pits were arranged antiparallel on opposite faces (100). One can assume that these were on one of the dislocation lines passing through the whole crystal. A characteristic feature of dislocations is their behavior on thermal treatment. Experiments of this kind (700°C, He atmosphere, 4 hours) showed that the etching-pit density rises up to 100 times on heat treatment. It was also found that the dislocation densities at the center and at the edges of the crystal were very different.

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B102, B214

Visualization of dislocations ...

This shows that the introduction of impurities by diffusion from the surface leads to a highly inhomogeneous distribution of the impurities. Further experiments will show whether there is any relationship between the dislocations of CdS-type crystals and their electrical and photo-electrical properties. The authors thank V. Ye. Lashkarev, Member of the AS UkrSSR, for his interest; and V. N. Vasilevskaya and L. I. Datsenko for discussions and help. There are 5 figures and 6 references: 2 Soviet-bloc and 4 non-Soviet-bloc. The three most important references to English-language publications read as follows: M. Kikuchi, S. Jizima, J. Phys. Soc. Japan, 14, 1638, 1959; D. C. Reynolds, S. J. Chysak, J. Appl. Phys. 31, 94, 1960; J. Nishimura, J. Phys. Soc. Japan, 15, 732, 1960.

ASSOCIATION: Institut fiziki AN USSR Kiyev (Institute of Physics,
AS UkrSSR, Kiyev)

SUBMITTED: August 2, 1960 (initially) and October 26, 1960 (after
revision)

Card 3/3

SUKHOVERKHOV, F.M.; PISARENKOVA, A.S.

Rearing two-year-old *Ctenopharingodon idella*, *Aristichtys nobilis*, *Hypophthalmichthys molitrix*, and *Mylopharyngodon piceus* together with carp in the ponds of Moscow Province under conditions of dense stocking. Trudy sov. Ikht. kom. no.14:68-73 '62. (MIRA 15:12)

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1. PISARENKOVA, A. S.
2. USSR (600)
4. Carp
7. Survival and growth of the carp *Stenopteryngdon idella* in ponds, A. S. Pisarenkova, *Hyb. kro.. 2* no. 4 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Incl.

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E.O., inzh.; PISARENKOVA, A.S., rybovod; SHCHERBINA, A.K., doktor
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Vneshneekonomicheskiye svyazi Polskoy Narodnoy Respubliki. Moscow, Vneshtorgizdat.

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Includes bibliographical references.

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Vulcanizing tire tubes with an iron. Za rul. 17 no.3:32

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Study of a chain oscillating system with the introduction of concentrated mass. Godishnik masn elekt 7 no.1:33-38 '61. (publ. '61)

~~L 40964-43~~ EMP(1)

ACCESSION NR: AP5006242

S/0292/65/000/002/0027/0029

AUTHOR: Pisarev, A. (Engineer); Minchev, M. (Engineer)

TITLE: Instrument for measuring vibrations of switching equipment

SOURCE: Elektrotehnika, no. 2, 1965, 27-29

TOPIC TAGS: vibrometer, switching equipment, vibration measurement

ABSTRACT: The development of a special electronic instrument is reported which permits measuring the contact bouncing in switching equipment, such as relays and switches, with practically no current flowing through the contacts. The test contacts control an input amplifier in the instrument in such a way that at each closing (strike) of the contacts, the amplifier output voltage is zero, and at each opening (rebound) of the contacts, the amplifier output voltage is maximum. As a result, the contact vibration is converted into a series of pulses separated by spacings. The instrument provides the electronic means for

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measuring the total vibration period and also the time of individual strikes and rebounds. An experimental model exhibited an overall error of 5.5% (as compared to the readings of a vibration oscillograph). Principal circuit diagrams are given. Orig. art. has: 6 figures and 8 formulas.

ASSOCIATION: Mashinno-elektrotekhnicheskiy institut (Machine and Electrotechnical Institute), Sofia

SUBMITTED: 00

ENCL: 00

SUB CODE: EE, EC

NO REF SOV: 001

OTHER: 001

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Card 2/2

FISAREV, A.; MATSAROV, G.

Automatic APV-100 model explosion-proof starter. p. 15. *Elektricheskaya Energetika*,
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Design of saturable reactors for controlled asynchronous drives.
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Spectrographic analysis of tin. M. A. Rivkina, V. D. Pisarey, A. V. Kozmlov, Z. P. Kostrova, L. A. Knisl'mirova, and M. P. Levchenko (Radiochemical Inst. and Tin Plant, Novosibirsk). *Zashchita* 13b: 71, 1031-3 (1955).--Sn fused with 10% Bi, Pb, Sb, and Cu was added to pure Sn at 350°. Alloys contg. Fe and As were prepd. from "black" tin to which the Sn-Fe and Sn-As alloys were added at 500-550°. After stirring and removing the scum of oxides, the alloys were poured into a nest of 6 molds 6 mm. in diam. and 70 mm. deep. These molds served as electrodes of a spark with an analytical gap of 2 mm.; exposure 45 sec. Arsenic was detd., semiquantitatively, visually. In the presence of more than 0.2% Fe, Bi could not be detd. The mean arithmetic error for tin was $\pm 1.0\%$. The analysis was completed in 50-60 min.

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