

S/126/62/013/006/002/018

E202/E492

Optical properties of ...

$$\text{Vanadium: } \epsilon_1 = 2.9 + 8.05 \lambda^2 - 0.034 \lambda^4;$$

$$\epsilon_2 = -3683 \lambda^{-5} + 2167 \lambda^{-3} - 392 \lambda^{-1} + 33.4 \lambda + 0.139 \lambda^3; \quad (7)$$

$$\text{Gold: } \epsilon_1 = -16.5 + 37.2 \lambda^2 - 0.12 \lambda^4;$$

$$\epsilon_2 = 1.55 \lambda^3 - 0.0024 \lambda^2. \quad (8)$$

Detailed contributions of various groups of electrons participating in the above expressions were identified. The groups of optical electrons found were related to the s- and d-bands. Current carriers in small d-bands contributed relatively little to conductivity. Additional data on Hall coefficient confirmed two types of carriers with the conductivity in the d-band being of the hole type. In the case of gold, similar results were obtained by means of the simple method of equalization, which proved the reliability of the method of approximating polynomials. There are 6 figures and 2 tables.

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Card 3/4

Optical properties of ...

S/126/62/013/006/002/018
E202/E492

4

ASSOCIATION: Institut fiziki metallov AN SSSR
(Institute of Physics of Metals AS USSR)

SUBMITTED: January 17, 1962

Card 4/4

LEVKOV, A.N.; NOSKOV, M.M.; PONOMAREVA, V.I.

Faraday effect in copper oxide and selenium near the main absorption band. Izv. vys. ucheb. zav; fiz. no.1:171-175 '63.
(MI^a 16:5)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo.
(Faraday effect) (Copper oxide) (Selenium)

AFANAS'YEVA, L.A.; BOLOTIN, G.A.; NOSKOV, M.M.

Magnetic rotation of the polarization plane with reflection from
antimony and bismuth in the infrared region of the spectrum. Fiz.
met. i metalloved. 19 no.6; 944 Je '65. (MIRA 18:7)

1. Institut fiziki metallov AN SSSR.

ACC NR: AP7000662

SOURCE CODE: UR/0126/66/022/005/0787/0789

AUTHORS: Afanas'yeva, L. A.; Noskov, M. M.

ORG: Institute of the Physics of Metals, AN SSSR (Institut fiziki metallov AN SSSR)

TITLE: Spin orbit interaction and magnetooptical Kerr effect in ferromagnetic metals

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 5. 1966, 787-789

TOPIC TAGS: Kerr effect, cobalt, nickel, Faraday effect

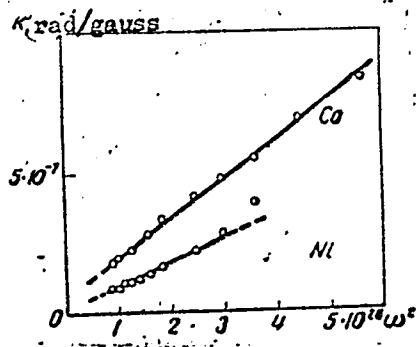
ABSTRACT: The frequency dependence of the Kerr constant for cobalt and nickel in the spectral region of 5--20 microns was determined. The experimental results are shown graphically (see Fig. 1). It was found that these results support the phonon mechanism for electron scattering in ferromagnetics proposed by L. A. Afanas'yeva, A. N. Voloshinskiy, and M. M. Noskov (FIM, 1966, 21, 288) and are incompatible with the inhomogeneous spin scattering mechanism of A. N. Voloshinskiy (FIM, 1964, 18, 10). It is concluded that the square dependence of the Kerr constant on the frequency and the sign of the magnetooptical rotation in cobalt require further clarification. The authors thank G. A. Bolotin, A. N. Voloshinskiy, and I. G. Fakidov for helpful discussions.

Card 1/2

UDC: 669.017:535

ACC NR: AP7000662

Fig. 1. Frequency dependence of the Kerr constant for cobalt and nickel in the interval of 8-20 microns.



Orig. art. has: 1 graph.

SUB CODE: 11, 20/ SUBM DATE: 06Apr66/ ORIG REF: 005

Card 2/2

VASILENKO, Aleksey Nikolayevich, kand. tekhn. nauk; DRYZHAKOV, Yevgeniy Vasil'yevich, dots.; ISAYEV, Sergey Ivanovich, kand. tekhn. nauk; KORNEYCHUK, Nikolay Karpovich, kand. tekhn. nauk, dots.; KOFANOV, Vyacheslav Ivanovich; assistant; KRUTOV, Vitaliy Ivanovich, doktor tekhn. nauk, prof.; MIRONOV, Boris Mikhaylovich, kand. tekhn. nauk; NIGMATULIN, Iskander Nigmatulevich, doktor tekhn. nauk, prof.; NOSOV, Mikhail Vasil'yevich, prof.; SAMOYLOV, Mikhail Sergeyevich, assistant; SPORYSH, Igor' Pavlovich, kand. tekhn. nauk, prof.; KHVOSTOV, Viktor Ivanovich, kand. tekhn. nauk; SHISHOV, Yevgeniy Viktorovich, kand. tekhn. nauk; YUDAYEV, Boris Nikolayevich, kand. tekhn. nauk, dots.; KUTYRIN, I.N., dots., kand. tekhn. nauk, retsenzent; SHVEDOV, A.M., dots., retsenzent; TUPITSYNA, I.A., red.; FUFAYEVA, G.I., red.

[Problems in technical thermodynamics and heat transfer]
Sbornik zadach po tekhnicheskoi termodinamike i teplopere-
dache. [By] A.N.Vasilenko i dr. Moskva, Vysshiaia shkola,
1964. 369 p. (MIRA 17:4)

1. Prepovedatel'skiy kollektiv kafedry termodinamiki i teplo-
peredachi Moskovskogo vysshego tekhnicheskogo uchilishcha
(for all except Kutyrin, Shvedov, Tupitsyna, Fufayeva). 2. Mo-
skovskiy aviatsionnyy institut (for Kutyrin, Shvedov).

NOSKOV, N.F.

Helminthological expedition of the Gorkiy Teachers' Institute to
Gorkiy Reservoir. Uch. zap. GGPI 48:91-94 '64.

Role of gulls in supporting the focus of Ligula infestation in
Gorkiy Reservoir. Ibid.:95-97 (MIRA 18:4)

MOSKOV, N.I.

Multi-dimensional physicochemical diagrams based on the principle
of multi-dimensional axonometry. Dokl.AN SSSR 94 no.1:89-92 Ja
'54. (Chemistry, Physical and theoretical) (Axonometry)
(KERA 7:1)

NOSKOV, N.I.

Construction of graphic representation for multicomponent systems
by means of multi-dimensional axonometry. Izv.Sekt.fiz.-khim.anal.
26:14-29 '55.
(Systems (Chemistry)--Graphic methods)
(Axonometry)

(MIR 8:9)

SOV/124-57-5-5239

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 19 (USSR)

AUTHOR: Noskov, N. I.

TITLE: The Dyadic Graphic Method for the Determination of the Position of a Normal Spatial Seven-bar Mechanism (Diadnyy sposob postroyeniya polozheniy normal'nogo prostranstvennogo semizvennika)

PERIODICAL: Tr. Seminara po teorii mashin i mekhanizmov In-ta mashinoved. AN SSSR, 1956, Vol 16, Nr 62, pp 5-10

ABSTRACT: The paper suggests a graphic method for the design of a normal seven-bar mechanism which for prescribed positions of the driving and the driven link is reduced to a problem of the design of a 14-angle polygon with prescribed positions of four of its sides. The solution of the problem requires only the construction of the orthogonal projections in which the suggested method differs favorably from the one by V. V. Dobrovolskiy [Teoriya sfericheskikh mekhanizmov (Theory of Spherical Mechanisms). Mashgiz, 1947] which requires a construction of the spherical projections.

V. N. Geminov

Card 1/1

NOSKOV, N.I.

Audited and find: Institute of Physics - Research work on problems shared
between physicists
Investigations of Strength Properties of Steel-Alloyed
Alloys, Vol. 1) Moscow, Izd-vo Akad. Nauk SSSR, 1977. 452 p. Printed and
2,000 copies printed.

Ed. of Publishing House: Publ. Director: Prof. M. I. Danilev; Ed. Director:
I. P. Pavlov; Authorisation: G. F. Darchukov, Academician; R. V. Malyutin,
Corresponding Member, USSR Academy of Sciences (Physicist, Ph.D.), T. A. Olsuf'ev,
I. P. Pavlov, and I. P. Smirnov, Candidate of Technical Sciences.

NOTE: This book is intended for metallurgical engineers, research workers
in metallurgy, and may also be of interest to students of metallurgy and
engineering.

CONTENTS: This book, consisting of a number of papers, deals with the properties
of heat-resisting metals and alloys. Each of the papers is devoted to
an area of the theory which affects the properties and behavior of metals.
The effects of various elements such as Cr, Ni, and Co on the heat-resisting
properties of various alloys are studied. Determination and variability
of certain metals as related to the thermal conditions are the object of
another study described. The problem of heterogenous embrittlement, diffusion
and the formation of embrittling reactions on metal surfaces by means of
electroprocesses are examined. One paper describes the operation and methods
used for preparing intermetallic or metallic. Boronized metals are artificially
examined and evaluated. Results are given of studies of interaction bonds
and the behavior of atoms in metals. Data of surface and corrosion studies are
described. No publications are available. References concerning each
of the articles

Khavryuk, L. N., and N. I. Noskov. On 12% Chromium Steel. 19	
Danilev, P. A., V. A. Stepanov, G. A. Prokof'yev, E. F. Kostylev, and P. A. Kozai. 12Cr and 12Cr-0.5% Nickel-Chromium-Nickel-Chromium Steel. 23	
Pavlov, I. P., and I. P. Smirnov. On the Mechanism of Stress Relaxation in Austenitic Steels 25	
Pavlov, I. P., A. A. Matveev, E. M. Prokof'yev, and I. P. Smirnov. The Effect of Thermal Stress on Strength, Long-Term, and Vibration Strength of Alloys 27	
Pavlov, I. P. Acceleration of Aging Cycles of 12% Nickel-Steel in Test- ing Steels 31	
Pavlov, I. P., A. A. Matveev, and A. I. Novikov. The Effect of Alloying on the Constitutional Hardening of Zirconium 33	
Nikulin, N. N. Experimental Study of the Mechanism of Relaxation of Steel- Base Alloys 35	
Zhuravlev, N. N., and I. P. Smirnov. The Effect of Complex Alloying of Vanadium, Chromium, and Tungsten on the Elongation of Hardened Crystals in the Annealing of Collected Ferrite 39	
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Ivanov, D. B., P. A. Pavlov, V. A. Danilev, and B. I. Ignat'yev. Structure and Properties of Carbide Alloys Under an Isothermal Anneal at High Temperature 49	
Goloshtko, S. N., I. A. Salnikova, and N. I. Hill. The Effect of Spikes on Creep Strength of Certain Steels 53	
Lagutin, N. N., and I. P. Smirnov. Creep Strength of Steel Supersaturated Ripens of Austenitic Steel in a State of Complex Stress 57	
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Pavlov, I. P., V. A. Stepanov, and I. P. Smirnov. Study of Strength Re- lationships of Low-carbon Steels 65	
Temnikov, V. N. Artificial Aging of the 12M7 Alloy under Cyclic Loads 125	
Izotov, N. I., and I. P. Smirnov. Study of Phase Structures of Aluminide-Magnesium Alloyed Copper-nickel Solid Solutions 132	
Romanov, N. N. Relaxation of the Thermokinetic Change in Austenite and the Phases of the Development of New Alloys 137	
Khavryuk, L. N., S. M. Matveev, and A. I. Matveev. Study of the Endurance Limit of Metals by Means of Registering the Fatigue Curve 143	

17

5(4)

AUTHOR: Noskov, N. I. SOV/78-4-3-22/34

TITLE: Representation of the Five-component System by the Method of the Monocentric Square (Izobrazheniye pyaternoy vzaimnoy sistemy po sposobu monotsentricheskogo kvadrata)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 3,
pp 626-644 (USSR)

ABSTRACT: Comparative analyses and geometrical investigations of the aqueous four- and five-component system were carried out by the figure and vector method. The plotting of the figure diagram of the four-component system: K_2SO_4 - Na_2SO_4 - $MgSO_4$ - H_2O was carried out according to the method devised by Jeneke and Buke and the plotting of the figure diagram of the five-component system K^+ , Na^+ , Mg^{2+} || Cl^- , SO_4^{2-} - H_2O according to the method developed by Skoute and Buke. A complete diagram of the four-component system was plotted at 25° according to the vector method for the crystallization range of glaserite ($3K_2SO_4 \cdot Na_2SO_4$) and all surrounding crystallization ranges

Card 1/3

Representation of the Five-component System by the
Method of the Monocentric Square

SOV/78-4-3-22/34

as mirabilite ($\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$), astrakanite ($\text{Na}_2\text{SO}_4 \cdot \text{MgSO}_4 \cdot 4\text{H}_2\text{O}$),
epsomite ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$), schoenite ($\text{K}_2\text{SO}_4 \cdot \text{MgSO}_4 \cdot 6\text{H}_2\text{O}$), and
potassium sulfate (K_2SO_4). This diagram is shown in figure 12.

In the diagram the composition is illustrated by points, left
and right, without an additional index. The diagram of the
five-component system was plotted according to the monocentric
square method. For a better survey several crystallization
ranges of this system are given by detailed diagrams in
figures 22-26. In the construction of the polycomponent
systems by the method of the monocentric square spatial
figures and projections become superfluous. The diagram gives
the coordinates of all components, including water, on the
same scale and in wt %. On the diagram according to the
figure method the coordinates of salts are given on one
single scale and in ion % and the coordinates of water in
mole %. By this method it is possible to illustrate the simple
geometrical structure of solid and liquid phases in complex
systems. The vector diagram of the four-component system

Card 2/3

Representation of the Five-component System by the SOV/78-4-3-22/34
Method of the Monocentric Square

$\text{NiCl}_2 + \text{K}_2\text{SO}_4 \rightleftharpoons \text{K}_2\text{Cl}_2 + \text{NiSO}_4$ was experimentally drawn and given in figures 30-33. The vector method can be used for the plotting of diagrams according to the figure method as well as for the representation of multi-component systems. There are 35 figures, 3 tables, and 3 Soviet references.

SUBMITTED: April 5, 1957

Card 3/3

NOSKOV, N.I.

Mechanization of labor-consuming auxiliary operations.
Mashinostroitel' no.4:10-13 Ap '62. (MIRA 15:5)
(Industrial equipment--Technological innovations)

NOSKOV, N.I.

Diagram for systems having some components in small amounts.
Zhur. teorg. khim. 9 no.8:2007-2010 Ag '64.

(MIRA 1":11)

L 46285-66 ENT(m)/T/EMP(t)/ETI IJP(c) JD/HW/JG

ACC NR: AP5025329

SOURCE CODE: UR/0126/65/020/003/0428/0432

AUTHOR: Noskova, N. I.; Pavlov, V. A.

51
50

ORG: Institute of Physics of Metals, AN SSSR (Institut fiziki metallov AN SSSR)

B

TITLE: Stacking faults in face centered cubic crystal systems of metals and alloys

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 3, 1965, 428-432

TOPIC TAGS: metal crystal, crystal lattice structure, cubic crystal, crystal lattice defect

ABSTRACT: The hardening coefficient, corresponding to the third region of the elongation graph, was correlated with the probability of stacking faults formed in the lattice of pure metals and alloys. The hardening coefficient increased with the density of stacking faults.

Au, Ag, Cu, Al, Ni, Pt, Pd, and homogeneous solid solutions of Au-Cu, Ni-Cu, and Ni-Co were submitted to strong plastic deformation prior to tensile tests. The density of stacking faults was determined by x-ray diffraction and the hardening coefficient was derived by relating cross section reduction to intrinsic stress. In metals with high density, failure occurred without marked local deformation and the destruction surface was located at 45° to the sample axis. At low fault densities, failure was characterized by formation of a sharply defined neck, i.e. under strong local deformation. Effects of stacking faults on the hardening

Card 1/2

UDC: 539.332.546.4

L 46285-66

ACC NR. AP602680

coefficient and on the mode of destruction were related to the change in the dislocation structure, due to the different mobility of split and of intact dislocations. Orig. art. has: 4 figures and 1 table.

SUB CODE: 11/ SUBM DATE: 03Aug64 / ORIG REF: 002/ OTH REF: 008

LC
Card 2/3

LUKISHOV, G.I.; RODIONOV, K.D.; NOSKOV, N.I.

Chain of glove boxes for handling radioactive substances. Atom.
energ. 19 no.5:486-488 N '65. (MIRA 18:12)

NOSKOV, N [M] (Hd. of the Dept. of Epizootiology)

Chkalov Agricultural Inst.

"The course and treatment of necrobacillosis in grown cattle."

SO: Veterinaria 24(1), 1947, p. 19.

NOSKOV, N. M.

"The Cold Method of Rearing Calves," Veterinariya, No. 1, 1948.

Mbr., Chkalov Agricultural Inst., -c1948-.

NOSEKOV, N. M.

Agriculture

(How to keep alive all the calves born) (Chkalov) Chkalovskoe izd-vo, 1950.

Monthly List of Russian Accessions, Library of Congress, July, 1952. UNCLASSIFIED.

ЧКАЛОВ, Н. Н.

Agriculture

(How to free farms of brucellosis) (Chkalov) Chkalovskoe izd-vo, 1951.

Monthly List of Russian Accessions, Library of Congress, July, 1952. UNCLASSIFIED.

NOSKOV, N. f.

N. NOSKOV, author of Kolibatsillaz ("Colibacillosis") Chkalov, Chkal. izd., 1951. 4 pages (Chkal. obl. Administration of Agriculture. Administration of Agricultural propaganda. Chkal. obl. Scientific Veterinary Society) Unbound. 1,500 copies.

SO: Report U-4502; 28 August 1953.

(From: NEW BOOKS ON VETERINARY MEDICINE Veterinariya, No. 11, pp. 63,64, Nov. 1951, Moscow, Russian mo per.)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137

KOSKOV, N. M.

"Production experience in veterinary medicine and zootechnics on kolkhozes"
Chkalov, 1951. 16 pages. (Chkalov Oblast Administration
of Agriculture, Administration of Agricultural Propaganda,
Chkalov Oblast Scientific Veterinary Association)
SO: Vet., March 1952, Unclassified.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0011373

NOSKOV, N. N.

NOSKOV, N.: Swine erysipelas and the fight against it. Chkalov. Chkalov Publishing House. 1952. 8 pages. Free. 2,500 copies. (Chkalov Oblast Administration of Agriculture, Administration of Agricultural Propaganda, Veterinary Department).

SO: Veterinariya; 30; (1); January 1953; Uncl. TABCON

HOKHOV, N. M.

HOKHOV, N., "Organization of Sanitary Improvement Measures on Poultry Farms with Respect to Bovine Disease". Chkalov, Chkalov Publishing House, 1952. 12 pages, free (Chkalov Oblast Administration of Agriculture, Administration of Agricultural Propaganda, Veterinary Department).
SO: Veterinariya; Vol. 30; No. 7; July 1953 und de G
Trans. # 155 by L. Lulich

NOSKOV, N. M., SURNACHEV, A. V., KANEVSKIY, V. N., Pir, Chkalov oblast,
Card. Vet. Sci. See. Cuckooer Vet Polyclinic
Contagion and Contagious Diseases in Animals

Study of the role of sheep in the epizootiology of malignant catarrhal fever in cattle.
Veterinaria 29 no.3:34-37 Mr '52.

9. Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.
2

NOSKOV, Nikolay Mikhaylovich, dotsent, kandidat veterinarnykh nauk;
BOBYLMV, P.G., redaktor; FEDOTOVA, A.F., tekhnicheskiy redaktor

[Fundamentals of raising calves] Osnovy vyrashchivaniia teliat.
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 295 p. (MIRA 10:4)
(Calves)

Country	:CZECHOSLOVAKIA	Q-2
Category	:Farm Animals. Cattle.	
Abs. Jour	:Ref Zhurn-siol., No 16, 1958, 74009	
Author	:Moskov, N. M.	
Institut.	: <u>—</u>	
Title	:The Basis for Planned Raising of Calves.	
Orig Pub.	:Nas choy, 1957, No 21, 586-588	
Abstract	:This study deals with the raising methods of highly productive cattle at the Karavayev, Kostromskaya oblast* and imeni Kozintsev, Oren- burgskaya oblast* breeding farms. -- G. A. Titov	
Card:	1/1	

MUSKOV, N. M., kand.veterinarnykh nauk

Effect of age and feeding on the quality and composition of the
blood serum of calves. Agrobiologiya no.3:358-360 Ky-Je '59.
(KIRA 12:9)

L. Orenburgskiy sel'skokhozyaystvennyy institut.
(Blood--Analysis and chemistry)
(Calves--Feeding and feeds)

YERSHOV, V.S., prof., doktor veter.nauk; ZHURAVEL', A.A., prof., doktor veter.nauk; PREOBRAZHENSKIY, N.M., dotsent, kand.veter.nauk; YEL'TSOV, S.G., prof., doktor veter.nauk; ITKIN, B.Z., dotsent; MOSKOV, N.M., dotsent, kand.veter.nauk; YEMEL'YANOVA, N.I., red.; BALLOD, A.I., tekhn.red.

[Principles of veterinary medicine] Osnovy veterinarii. Izd.2..
ispr. i dop. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 437 p.
(MIRA 13:10)

1. Direktor Vsesoyuznogo instituta sel'mintologii im. K.I.Skrystsina (for Yershov). 2. Zaveduyushchiy kafedroy fiziologii Lenigradskogo veterinarnogo instituta (for Zhuravel'). 3. Moskovskaya veterinarnaya akademiya (for Preobrazhenskiy). 4. Zaveduyushchiy kafedroy operativnoy khirurgii Moskovskoy veterinarnoy skademii (for Yel'tsov). 5. Zaveduyushchiy kafedroy epizootologii Orenburgskogo sel'skokhozyaystvennogo instituta (for Moskov).
(Veterinary medicine)

NOSKOV, N.M.

Inflammatory reactions in calves in ontogenesis. Biul. eksp. i
biol. med. 50 no. 8:80-83 Ag '60. (MIRA 13:10)

1. Iz kafedry veterinarno-sanitarnoy eksperitzy i epizootologii
(zav. - prof. A.Ya. Lukin) Orenburgskogo sel'skokhozyaystvennogo
instituta. Predstavlena deystv. chlenom AMN SSSR V.V. Farinym.
(INFLAMMATION)

MOSKOV, N. M. Doc Vet Sci -- "Studies on the immunobiology
nursing-age of calves." Mos-Kuzminki, 1961 (Mos Vet Acad of the Min of Agr RSFSR.)
(KL, 4-61, 205)

29
- -

NOSKOV, Nikolay Mikhaylovich, kand. veter. nauk; BYRDINA, A.S., red.;
PROKOF'YEVA, L.N., tekhn. red.

[Handbook for practical lessons in epizootiology] Rukovodstvo k
prakticheskim zaniatiyam po eizootologii. Moskva, Gos. izd-vo
sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 343 p.
(MIRA 14:8)

(Communicable diseases in animals)

KOROPOV, V. N. (Professor) and NOSKOV, N. M. (Docent, Moscow Veterinary Academy).

"Metabolism in calves during ontogenesis, in normalcy and in pathology..."
Veterinariya, vol. 39, no. 2, February 1962 pp. 45

NOSKOV, N.M., prof.

Give the green light to educational films. Veterinarie
41 no.10:103 0 '64. (MIRA 18:11)

1. Gor'kovskiy sel'skokhozyaystvennyy institut.

NOSKOV, N.S., kand.tekhn.nauk; TSAPENKO, Ye.F., kand.tekhn.nauk;
ZVEZDKIN, A.S., inzh.; BRODSKIY, Z.I., inzh.

Control of liquid flow into a vessel using electrodes. Prom. energ.
17 no.12:26-31 D '62. (MIRA 17:4)

USSR/Soil Science. Tillage. Land Reclamation. Erosion.

J-5

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24817.

Author : Noskov, P.

Inst :

Title : The Advantage of the Mal'tsev System of Soil Tillage.

Orig Pub: S. kh. Sibirii, 1957, No 9, 19-23.

Abstract: No abstract.

Card : 1/1

BRAVYY, Z.A.; KIRILINA, V.Z., st. nauchn. sotr., red.; NOSKOV,
R.F., red.; BRATISHKO, L.V., tekhn. red.

[Rapid method for determining the breaking length of cot-
ton yarn] Быстроый метод определения разрывной длины
хлопчато-бумажной пряди. Москва, 1962. 63 p.
(MIRA 17:3)

1. Moscow. Tsentral'nyy institut nauchno-tehnicheskoy in-
formatsii legkoy promyshlennosti.

MOSKOV, S.A.

Use of hydrolysin L-103 and aminopeptide in surgery. Akt.vop.perel.
krovi no.7:311-314 '59. (MIRA 13:1)

1. Kafedra obshchey khirurgii No.2 Voyennno-meditsinskoy akademii im.
S.M. Kirova (nachal'nik kafedry - zasluzhennyy deyatel' nauki, prof.
M.S. Lisitsyn).

(BLOOD PLASMA SUBSTITUTES)

MOSKOV, S. I.

27104. MOSKOV, S. I. - Stakhanovski y plan povyshei ya proi z vodi tel'nosti truda na shakte ("Chernaya Gora", Kuzbass). Nekhani z atsi ya trudoyerki kh i tyezhelykh robot, 1949 № 6, c. 1-3

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

PROSKURIN, V.V.

PROSKURIN, V.V. ; MOSKOV, S.I.

Some results of using levels of 150m. high in working wide pitching seams. Ugol' 31 no.12:13-16 D '56. (MLRA 10:2)

1. Tomskiy politekhnicheskiy institut imeni S.M.Kirova (for Proskurin). 2. Nachal'nik shakhty "Severnaya" tresta Kemerovugol' (for Moskov).

(Kuznetsk Basin--Coal mines and mining)

MOSKOV, S. K.

MOSKOV, S. K. -- "Flattening of Asphalt-Concrete by Jarring." Sub 23 Oct 52,
Central Sci Res Inst of Industrial Structures. (TsNIP). (Dissertation
for the Degree of Candidate in Technical Sciences).

SO: Vechernaya Moskva, January-December 1952

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MIKHAILOV, Z.V., red.

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stroj. 18 no.10:15-18 0 '56. (MLRA 9:11)
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(Roofing--Equipment and supplies)

MOSKOW, S.K., kand.tekhn.nauk. Prinimali uchastiye: BELKIN, A.I., inzh.;
TIKHOMIROV, N.M., OZIMOKOV, S.D., kand.tekhn.nauk, nauchnyy red.;
AZRIEL'ANT, Ya.M., red.issd-vs; KAUMOVA, G.D., tekhn.red.

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zatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva.
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Belkin, Tikhomirov).

(Roofing)

No. 5.K. No. 5.K.

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Moscow, 27 Jun - 3 Jul '60.

1. Dr. V. A. Kholodenko (USSR): An experimental study of the
mechanical properties of diamond, cubic boron nitride, silicon carbide, and silicon
nitride.
2. Dr. V. S. Slobodkin (USSR): Mechanical properties of whiskers of
diamond, silicon carbide, silicon nitride, and boron nitride.
3. Dr. V. N. Goryainov (USSR): Mechanical properties of the rotation
of a cylindrical specimen. Influence of a cylindrical plane under
rotation on the mechanical properties of the material.
4. Dr. V. N. Goryainov (USSR): The determination of the direction
of rotation of rotating specimens.
5. Dr. V. N. Goryainov (USSR): A theory of materials
with a finite lifetime.
6. Dr. V. N. Goryainov (USSR): Some problems in the theory of
rotating solids.
7. Dr. V. N. Goryainov (USSR): Theories of anisotropic hyperelastic
materials based on the concept of a rotating coordinate system.
8. Dr. V. N. Goryainov (USSR): Some anisotropic theories of elastic for
cylindrical specimens.
9. Dr. V. N. Goryainov (USSR): Approximate treatment of orientation
and shear components.
10. Dr. V. N. Goryainov (USSR): Distribution of rotations of the
specimen, reported rectangular plate under generally
rotating loads.
11. Dr. V. N. Goryainov (USSR): Some essential problems of theory
of rotating materials.
12. Dr. V. N. Goryainov (USSR): Distribution of the forces in the
specimen of anisotropic materials in circulation.
13. Dr. V. N. Goryainov (USSR): A theory of anisotropic hyperelastic
materials based on the concept of a rotating coordinate system.
14. Dr. V. N. Goryainov (USSR): Some problems in the theory of
anisotropic hyperelastic materials based on the concept of a rotating
coordinate system.
15. Dr. V. N. Goryainov (USSR): The theory of anisotropic hyperelastic and the
application of the theory.
16. Dr. V. N. Goryainov (USSR): Experimental problems in the theory
of plasticity of anisotropic and anisotropic materials.
17. Dr. V. N. Goryainov (USSR): The state of stress in a deformed
specimen.
18. Dr. V. N. Goryainov (USSR): A measure theory for a
deformed solid.
19. Dr. V. N. Goryainov (USSR): Some plastic properties and rules
of plastic flow of anisotropic materials.
20. Dr. V. N. Goryainov (USSR): A method of deforming
plastic materials (method of a rotating system of coordinate
axes).
21. Dr. V. N. Goryainov (USSR): The problem of structural dynamics.
22. Dr. V. N. Goryainov (USSR): An application of methods for solving
problems of dynamics to the problem of determining the
velocity of flow, plastic rules in problems of plastic forming,
theory of plasticity.
23. Dr. V. N. Goryainov (USSR): On the anisotropic problems of the
theory of plasticity.
24. Dr. V. N. Goryainov (USSR): A method for studying the plastic flow
of anisotropic materials. The application of some new
methods of mechanics of deformable bodies to the solution of
certain problems of the theory of plasticity.
25. Dr. V. N. Goryainov (USSR): Free and forced vibrations of
cylindrical shells.
26. Dr. V. N. Goryainov (USSR): Some deformations and stresses
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27. Dr. V. N. Goryainov (USSR): Determination of vibration
characteristics of cylindrical shells under rotating conditions.
28. Dr. V. N. Goryainov (USSR): An elementary discussion of certain
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29. Dr. V. N. Goryainov (USSR): Determination of vibration
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NOSKOV, S.K., kand.tekhn.nauk; RYAZANTSEVA, L.I., red.izd-va;
KASIMOV, D.Ya., tekhn.red.

[Construction of roofs using roofing materials] Ustroistvo
pokrytii s rulonnoi krovlei. Izd.2., ispr. i dop. Moskva, Gos.
izd-vo lit-ry po stroit., arkyit. i stroit.materialam, 1962.
200 p. (MIRA 15:5)

I. Akademiya stroitel'stva i arkhitektury SSSR. Institut
organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi
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NOSKOV, Sergey Kleonikovich, kand. tekhn. nauk; NIKIFOROV, I.A.,
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roizoliatsii v promyshlennom stroitel'stve. Moskva, Gos-
stroizdat, 1963. 214 p. (MIRA 16:9)
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NOSKOV, S.K., kand. tekhn. nauk; SAMOKHINA, T.M., inzh.

Selecting the type and the composition of waterproofing elements.
Prom. stroi. 42 no.10:42-46 0 '64. (MIRA 17:11)

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T.M., inzh.

Experience in using reinforced roofs. Prom. stroi. 43 no.9:11-13
'65. (MIRA 18:9)

NOSKOV, VA.

PHASE I BOOK EXPLOITATION SOV/5452

Donskoy, Yu. Ye., G.I. Kardash, and I.P. Lyalich, eds.
 Mechanizatsiya i avtomatizatsiya: stenki stat'ev ob opitse mehhanizatsii i avtomatizatsii na Khar'kovskikh moshchinitel'nykh zavodakh [Mechanization and Automation: Collection of Articles on the Introduction of Mechanization and Automation in Khar'kov Machine-Manufacturing Plants] [Khar'kov]: Khar'kovskie Moshchinitel'nye Zavody, 1960. 375 p. 3,900 copies printed.

Editorial Board: S.A. Vorob'yev, Candidate of Technical Sciences; Chairman of the Editorial Board: P.I. Lysyuk, and others. A.I. Matov, Engineer, Candidate of Technical Sciences; A.Ye. Leont'ev, Doctor, A.I. Nuzhnyi, Candidate of Technical Sciences, and B.M. Kharay, Candidate of Technical Sciences [Eds.]. Ya. Ya. Donskoy, G.I. Kardash, and I.P. Lyalich [Tech. Eds.]. M.I. Klimova.

PURPOSE: This collection of articles is intended for technical and scientific personnel, outstanding workers, and shop workers of communist labor.

CONTENTS: The multifaceted experience of Khar'kov enterprises in the mechanization, automation, and improvement of manufacturing processes is generalized. The development of new methods, instruments, and formations in science is considered and attention is given to many established enterprises, and to the introduction of achievements in the Khar'kov gas-turbine management. By including concrete examples and facts, the authors of the various articles attempt to demonstrate the achievements of the Khar'kov industrial complex in fulfilling the resolutions of the June (1959) and July (1960) Plenums of the Central Committee of the Communist Party of the Soviet Union. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Gubarev-Shubin, Z.A. [Corresponding Member of the Academy of Sciences of the USSR, Chief Designer of the Khar'kovsky turbomachinery plant — Khar'kov Turbine Plant]. The Development of Steam-Turbine Building at the Khar'kov Turbine Plant Since 1945	79
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Rydenov, V.A. [Chief Engineer of the Khar'kovskiy elektromekhanicheskiy zavod — Khar'kov Electromechanical Plant], and S.Ye. Polotsky [Deputy Chief Plant Engineer]. Full Mechanization and Automation at the EMEZ	117

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Portnov, P.F. [Chief Engineer of the EMEZ]. Automatic [Production] Lines for Stamping Motor and Rotor Shells	161
Sil'ver, A.O. [Chief Process Engineer of the "gret shchakhera" Plant]. For Mechanization in Coal Mining	197

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MOSKOV, V.A., inzh.

Three-legged suspended centrifuges. Khim.mash. no.5:42-43
S-0 '60. (MIRA 13:9)
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NOSKOV, V A

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Proizvodstvo litykh molotovykh shtampov (Manufacture of cast drop-forging dies) Moskva, mashgiz, 1953.
97 p. illus., diagrs., tables.
"Literatura": p. 97-(98)

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Spruce as an indicator of river bed stability. Priroda 49 no.11:
N '60.
(MIRA 13:11)

1. Gosudarstvennyy hidrologicheskiy institut, Leningrad.
(Spruce) (Rivers)

NOSKOV, V.G.

Formation and development of islands in the channel of the
Markha River. Trudy GGI no.81:77-90 '61. (IIRA 15:2)
(Markha River ~ Islands)

NOSKOV, V. G.

Formation and development of islands in the channel of the
Markha River. Trudy GGI no.88.77-90 '61. (MIRA 15:2)
(Markha River--Islands)

TIMOFEEV, A.A., kand. tekhn. nauk; KOVALENKO, P.P., kand. tekhn. nauk;
PREOBRAZHENSKAYA, I.N., inzh.; NOSKOV, V.G., inzh.; SOLOTINA,
~~S. V. S.~~; izd-va; KHENOKH, F.M., tekhn. red.

[Album of designs of reinforced concrete slabs for precast pavements of city roads, sidewalks and streetcar tracks] Al'bom konstruktsii zhelezobetonnykh plit dlia stornykh pokrytii gorodskikh dorog, trotuarov i putei tramvaiia. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1962. 34 p. (MIRA 16:2)

1. Akademiya kommunal'nogo khozyaystva, Ural'skiy nauchno-issledovatel'skiy institut. 2. Ural'skiy nauchno-issledovatel'skiy institut Akademii kommunal'nogo khozyaystva (for Timofeyev, Kovalenko, Preobrazhenskaya, Noskov).
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NOSKOV, V.G.

Results of the inspection of road surfacing in Sverdlovsk.
Nauch. trudy AKKH no.24 all-18 '64 (MTRA 1861)

YEKHLAKOVA, N.G.; NOSKOV, V.G.

Use of stabilized soil in city road building. Nauch. trudy
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NOSKOV, V.G.

Formation of the Leningrad floods; laboratory studies. Trudy
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NOSKOV, V. I.

Pine

Significance of gathering pine seeds from different forests, Les. khoz., 5, No. 8, 1952

9. Monthly List of Russian Accessions, Library of Congress, November 195², Uncl.

NOSKOV, V. I.

"The Ecology and Individual Variability of the Common Pine and Its Importance in Forest Seed Production." Cand Agr Sci, Voronezh Forestry Inst, Min Higher Education USSR, Voronezh, 1954. (KL, No 9 Feb 55)

SO: Sum. No. 631, 26 Aug 55- Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

USSR/Plant Diseases. Diseases of Forest Species

0-2

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44451

Author : Noskov V.I., Negrutskiy S.F.
Inst : Voronezh Technical Forestry Institute
Title : Contribution to the Problem of the Origin of Witches' Broom on Pine

Orig Pub : Nauchn. zap. Voronezhsk. lesotekhn. in-ta, 1956, 15, 207-210

Abstract : The authors' experimentation on initial infection in the formation of witches' broom on pine led to a denial of any effect being caused by actinomycetes and other microorganisms. The findings are presented of the cultivation of another generation of pine from seeds which were gathered with witches' broom. It was discovered that 45 pine saplings in cultures coming from the planting of one-year old shoots of these seeds had inherited the characteristics of witches' broom and by their fifth year were already quite distinct from normal saplings in both growth and morphological characteristics.

Card : 1/2

Noskov, V.V

32-11-14/60

AUTHORS: Terykalova, T.T., Noskov, V.V.

TITLE: Short Reports (3) (Korotkiye soobshcheniya)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp. 1308-1308 (USSR)

ABSTRACT: It is suggested in this paper that the determination of the molybdenum content in chromium steel with a high content of chromium be carried out photocolorimetrically, by which iron in the presence of potassium bromide is regenerated by chlorine lead. Chlorine lead in connection with strong sulphuric acid results in a considerable stabilization of the coloring of molybdenum thiocyanate and shortens the time of determination to about 10 minutes. For carrying out the analysis 0.2 g steel and 20 ml concentrated HCl and HNO_3 are dissolved; 10 ml of concentrated H_2SO_4 are added. For purposes of eliminating nitrogen the solution is heated up and then mixed with distilled water up to 500 ml. 15 ml each of the solution is put into 2 retorts, where each 10 ml of the 5% H_2SO_4 , and each 5 ml of a 10% solution of HBr are added. Later, 15 ml of the 10% solution of NH_4CNS and 5 ml of the 10% solution of SnCl_2 + distilled water up to 100 ml are put into one of the retorts. Into the other retort only 5 ml of the 10% solution of SnCl_2 are added. After 3 to 4 min.

Card 1/2

Short Reports (5)

32-11-14/60

colorimetrization with a blue light filter is carried out.

ASSOCIATION: Kuznetsk Metallurgical Combine (Kuznetskiy metallurgicheskiy kombinat)

AVAILABLE: Library of Congress

Card 2/2

NOSKOGL.

KUSTANOVICH, I.M.; PAVLOVSKIY, Yu.V. [deceased]; KUCHINA, F.M.; NOSKOV, V.F.;
GAMS, N.N.; FAYGEL'SON, A.Kh.; SEMIN'KO, V.A.; POPOV, P.G.; DROBYAZKO,
T.G.

Brief reports. Zav. lab. 23 no.11:1393-1395 '57. (MIRA 11:1)

1. Magnitogorskiy industrial'nyy tekhnikum (for Kustanovich). 2. Ir-kutskiy zavod tsashelogo mashinostroyeniya im. Kuybysheva (for Pavlovskiy). 3. Kuznetskiy metallurgicheskiy kombinat (for Kuchina, Noskov, Drobayazko). 4. Verkhne-Kolymskoye rayonnoye geologorazvedoch-nov'e upravleniya Dal'stroya (for Faygel'son). 5. Khar'kovskiy farmatsevticheskiy institut (for Semin'ko). 6. Khar'kovskiy institut inzhenerov communal'nogo stroitel'stva (for Popov).
(Metallurgy) (Chemical apparatus)

BABSKII, V.D., & MOSKOV, V.V.

Determining the optimum conditions for the colorimetric
analysis of phenols. Zav. lab. 11 no. 3: 342-344 '65.
(MIRA 18:12)

NOSKOV, V.V.; GARBER, Yu.N.

Using the method of high-frequency titration for the analysis of
the products of coke and coal chemicals plants. Koks i khim. no.
8:49-54 '62. (MIRA 17:2)

1. Kuznetskiy filial Vostochnogo uglekhimicheskogo instituta.

PANFILOV, I.A.; NOSKOV, V.V.

Determination of benzene in coke-oven gas. Zav. lab. 29
no.6:662-664 '63. (MIRA 16:6)

1. Kuznetskiy filial Vostochnogo nauchno-issledovatel'skogo
uglekhimicheskogo instituta.
(Benzene) (Coke-oven gas)

SEMUKHINA, G.V.; BARSKIY, V.D.; MOSKOV, V.V.

Photometric determination of small amounts of pyridine bases in phenols.
Zhur.anal.khim. 19 no.9:1155-1158 '64. (MIRA 17:10)

1. Kuznetskiy filial Vostochnogo nauchno-issledovatel'skogo instituta,
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KOSKOV, Yu.A.; KATALASOV, S.F.; CHUDYAYEV, V.I.

Equipment for the loosening-up of bulk loads frozen to either.
Metallurg 9 no.6:12-13 Je '64. (MIRA 17:9)

CHERNEYAYEV, V.I., inzhener; MOSKOV, Yu.A., inzhener.

Mechanized loosening of frozen ore. Metallurg 2 no.1:32-34 Ja
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(Materials handling)
(Tools--Vibration)

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V.F., inzh., red.; TISHKOV, L.B.; KATOLICHENKO, V.A.; PANIN, A.V.;
MOSKOV, Yu.A.; TRIFONOVA, M.G.; KLYMOV, Ye.I.; BOBROVA, Ye.N.;
tekhn.red. . .

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Tekhnicheskoe osnashchenie krupnykh gruzovykh stantsii obshchego
pol'zovaniia. Moskva, Gos.transp.zhel-dor izd-vo. 1958. 186 p.
(Moscow. Moskovskii institut inzhenerov zhelezodorozhnogo
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SMIRNOV, Yevgeniy Konstantinovich, kand.tekhn.nauk; NOSKOV, Yuriy
Aleksandrovich, inzh.; KANSHIN, M.D., red.; VERNINA, G.P.,
tekhn.red.

[Foreign rail transportation of freight which freezes together]
Perevoski amerikaishchikhsia gruzov na zarubezhnykh zheleznykh
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NOSKOV, Yu.A., inzh.

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Avtom., telem. i sviaz' 6 no.1:44-45 Ja '62. (MIRA 15:3)
(London--Railroads--Signaling)

GINDICH, M.G., inzh.; NOSKOV, Yu.A., inzh.; NOVIKOV, A.I., inzh.

Using a vibratory percussion unit for unloading frozen loose materials. Mekh. i avtom. proizv. 18 no.6:19-20 Je '64.
(MIRA 17:9)

GJNDICH, M.G.; MOSKOV, Yu.A.

Vibration-percussion unit for unloading frozen bulk freight.
Riul.-tekh.-ekon. inform. Gos. nauch.-issel. nauch. i tekhn. in-
form. 17 no.9:74-76 S '64 (MIRA 18:1)

MATALASOV, S.F., kand. tekhn. nauk; MOSKOV, Yu.A., inzh.; Prinimali uchastiye: RAMODIN, V.N., inzh.; SUGAK, P.A., kand. tekhn. nauk; CHINAREV, S.S., inzh.; KURITSYN, V.I.; YAKUBOV, M.A.; VAVILOV, G.S., starshiy mekhanik; OVCHINNIKOV, Yu.P., starshiy mekhanik; DEVICHINSKIY, Yu.V., starshiy laborant; GOL'DENTUL, A.B., inzh.; VOROP'YEVA, Z.M., starshiy tekhnik

[Transportation of goods subject to freezing; problem in the theory of freezing and the mechanization of loosening operations.] Perevozki smerzaiushchiksia gruzov; voprosy teorii smerzaniia i mekhanizatsii rykhleniia. Moskva, Transport, 1964, 132 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhного transporta. Trudy, no.273).

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NOSKOV, Yu.A.; KATAIASOV, S.F.; CHERNYAYEV, V.I.

Minimization of the unloading of frozen freights. Zhiz. prom.
40 no.12:932-934 D '64. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo
transporta Ministerstva putey soobshcheniya i Vsesoyuznyy nauchno-
issledovatel'skiy institut transportnogo stroitel'stva Gosudarst-
vennogo proizvodstvennogo komiteta po transportnomu stroitel'stvu
SSSR.

MATALASOV, S.F., kand. tekhn. nauk; KOSKOV, Yu.A., inzh.

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dor. transp. 47 no.1:27-29 Ja '65. (MIRA 18:3)

GUMENYUK, G.N.; NALDZHAN, V.V.; NOOKOV, Yu.I.; ADEYANOV, V.A.

Determining the strength of rocks using irregularly shaped samples.
Nauch. trudy KNIUI no.14:165-168 '64.

Properties of coal and enclosing rock of some Karaganda Basin
seams. Ibid.:176-183 (MIRA 18:4)

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AUTHORS: Savel'yev, V.Ya., and Noskov, Yu.O.

TITLE: On the Theory of Corona Discharge in Nuclear
Radiation Counters

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No.1, pp.47-50

TEXT: The present authors have developed a theoretical
relation between the corona discharge current and the voltage
across the counter on the one hand, and the counter and circuit
parameters on the other. The basic condition for the appearance
of a positive corona in a counter is

$$\gamma K \geq 1$$

(2)

where K is the gas amplification coefficient and γ is the
total secondary emission coefficient (including all the secondary
processes). In a previous paper the first of the present authors
and V.A. Kononenko (Ref.5) showed that the gas amplification
coefficient K can be represented by the formula

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$$K = \exp \left[\frac{V}{U_i \ln(A/a)} - \frac{a}{\lambda_0} p \right] \ln 2 \quad (3)$$

where V is the true anode voltage, U_i is the ionization potential of the gas, p is the pressure in atm, and λ_0 is the mean free path of an electron in the gas at atmospheric pressure. Substituting Eq. (3) into the condition $\gamma K \gg 1$, one finds that

$$\frac{V}{U_i \ln(A/a)} - \frac{a}{\lambda_0} p \geq -\ln \gamma / \ln 2 \quad (4)$$

When V reaches the value V_s , corresponding to the beginning of the discharge, the above inequality becomes an exact equality so that

$$V_s = U_i \ln \frac{A}{a} \left[\frac{a}{\lambda_0} p - \frac{\ln \gamma}{\ln 2} \right] \quad (5)$$

This equation shows, in particular, that, other things being

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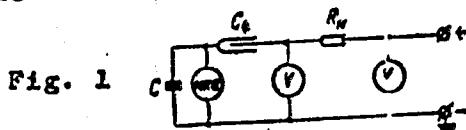
On the Theory of Corona Discharge in Nuclear Radiation Counters equal, the use of a cathode having a low work function and consequently a large γ , gives rise to a reduction in the discharge potential V_s . The reduction in this potential has been confirmed experimentally by replacing a nickel cathode by an aluminium one. Substituting for aP/λ_0 from Eq.(5) into Eq.(3), it is found that

$$K = \frac{1}{\gamma} \exp \frac{V - V_s}{v_0} \quad (6)$$

where

$$v_0 = U_i \ln (A/a)/\ln 2 \quad (7)$$

In order to determine the instantaneous value of the anode potential in a counter connected as shown in Fig.1, the following calculation is made



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The charge due to electrons reaching the anode wire in a corona discharge in a time dt is given by

$$dq_1 = -\frac{eK}{T} dt \quad (8)$$

where T is the time for the displacement of positive ions from the anode to the cathode. The charge reaching the wire from the capacitor C charged by the external source U_0 through the external resistance R is given by

$$dq_2 = \frac{U_0 - V}{R} dt \quad (9)$$

It follows that the change in the potential of the wire is

$$dV = -\frac{1}{C} \left[\frac{U_0 - V}{R} - \frac{eK}{T} \right] dt \quad (10)$$

It has been shown (Tolchenov, Ref.4) that, provided

$$\Delta V/V_s < 1/2 \ln (\Lambda/a), \quad (11)$$

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the time T is given by

$$T = \frac{A^2 \ln (A/a)}{2\mu + V} \sim \frac{A^2 \ln (A/a)}{2\mu + V_s} \quad (12)$$

Substituting Eqs. (6) and (12) into Eq. (10) and using the notation

$$(V - V_s)/v_0 = \eta, \quad (U_0 - V_s)/v_0 = \eta_0; \quad (13)$$

$$t/RC = \tau, \frac{\gamma A^2 \ln (A/a)}{2\epsilon\mu + V_s} v_0 = r,$$

it is found that

$$\frac{d\eta}{dt} = \eta_0 - \eta - \frac{R}{r} e^\eta \quad (14)$$

This equation cannot be integrated exactly. However, it can be simplified on the basis of experimental data. Measurements carried out on real counters, working under the corona discharge conditions, have shown that the true voltage across the counter

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does not vary very much when the anode voltage is considerably changed. Since the magnitude of V_0 in real counters is 50 to 100 V, the overvoltage in the case of the CAT-7 (SAT-7) and CHM-9 (SNM-9) counters does not exceed 20-25 V, and η does not exceed 0 to 0.5, it follows that the last term in Eq.(14) can be expanded into a series and the first order terms only need be retained. The solution of Eq.(14) then reads

$$\eta = \frac{\eta_0 r - R}{r + R} - \frac{R(1 + \eta_0)}{r + R} \exp \left[-\left(1 + \frac{R}{r}\right) \tau \right] \quad (15)$$

and the corona discharge current passing through the resistance R is given by

$$i_K = \frac{U_0 - V}{R} - \frac{V_0}{R} (\eta - \eta_0) \quad (16)$$

Substituting Eq.(15) into Eq.(16), the final expression for the current is found to be given by

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$$i_K = \frac{U_0 - V_s - v_0}{r + R} \left\{ 1 - \exp \left[- \frac{(r + R) t}{r R_c} \right] \right\} \quad (17)$$

In steady-state this becomes

$$i_{K\infty} = (U_0 - V_s + v_0)/(R + r) \quad (18)$$

Analysis of this equation shows that the corona discharge current is proportional to the magnitude of the overvoltage and inversely proportional to the sum of the load resistance R and the internal resistance of the counter r . It can be described by a series of straight lines passing through the point

$$x = V_s - v_0 \quad (19)$$

Secondly, when the corona discharge is initiated, the initial current is not equal to zero but is given by

$$i_{K \text{ min}} = v_0/(R + r) \quad (20)$$

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All these results are in full agreement with experiments and cannot be obtained from the classical formulation given by Werner (Ref.1). The experimental results which the present authors used to check the theory were obtained with the SAT-7 and SNM-9 counters using load resistances of 10, 1000 and 10000 MΩ. It is concluded that both the theoretical and the experimental results suggest that the optimum conditions obtain when the load resistance exceeds the internal resistance of the counters.

There are 5 figures and 5 references: 4 Soviet and 1 German.

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NOSKOV-DUKEL'SKIY, I. A.

PHASE I BOOK EXPLOITATION

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Titarenko, Mikhail Vasil'yevich, and Igor' Alekseyevich Noskov-Dukel'skiy (Deceased)

Releynnaya zashchita v elektricheskikh sistemakh (Relay Protection of Electrical Systems) [Lvov] Izd-vo L'vovskogo univ., 1959. 375 p. Errata slip inserted. 3,500 copies printed.

Ed.: V. V. Blikh; Tech. Ed.: A. V. Malyavko.

PURPOSE: This is a textbook approved by the Ministry of Higher Education of the USSR for use in power engineering and electrical engineering departments in schools of higher education. The book may also be of use to students of tekhnikums specializing in relay protection and to engineers and technicians engaged in the design, installation and operation of relay protection systems.

COVERAGE: The book discusses relay protection of the basic units of electrical systems: transmission lines, generators, transformers, motors, and bus bars. In writing the book the authors have complied with the requirements set forth in, "Rules for the Erection of Electric Installations" (1957). According to the authors, their book represents an attempt to compile a textbook corresponding to the program of the course, "Electric Power Stations, Networks and Systems," existing Soviet books on relay protection being inadequate for the program of this

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Relay Protection of Electrical Systems

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course. The authors thank Professors G. Z. Scholhitskiy, I. I. Greben', and Engineers N. L. Sosinovskiy, G. G. Glovatskiy and Ye. N. Zosim for their help. Chapters 1 to 8 were written by M. V. Titarenko, Chapters 9 to 12 by I. A. Noskov-Dukal'skiy. There are 61 references, all Soviet.

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