

L 10793-66

ACC NR. AT6001080

The plate occupies the domain S bounded by the curve L consisting of

$$L_j = [l_j, l_{j+1}] \quad (j = 1, 2, \dots, m)$$

$$l_{m+1} = l_1$$

The potential energy of the plate is given as

$$\Pi = V - A$$

where V is the energy of elastic deformation (elastic potential) and A is the work of external edge and surface forces. Green's formula is applied to the elastic potential to yield

$$\begin{aligned} V = & \frac{D}{2} \left\{ \iint_S w \Delta \Delta w \, dx \, dy + \sum_{j=1}^m \oint_{L_j} \left[(1-\nu) \left(\frac{\partial^2 w}{\partial x^2} \cos^2 \alpha + \right. \right. \right. \\ & \left. \left. \left. + 2 \frac{\partial^2 w}{\partial x \partial y} \sin \alpha \cos \alpha + \frac{\partial^2 w}{\partial y^2} \sin^2 \alpha \right) + \nu \Delta w \right] \frac{\partial w}{\partial n} \, dl + \\ & + \sum_{j=1}^m \oint_{L_j} \left\{ (1-\nu) \frac{\partial}{\partial l} \left[\left(\frac{\partial^2 w}{\partial x^2} - \frac{\partial^2 w}{\partial y^2} \right) \sin \alpha \cos \alpha - \right. \right. \\ & \left. \left. - \frac{\partial^2 w}{\partial x \partial y} (\cos^2 \alpha - \sin^2 \alpha) \right] - \left(\frac{\partial^2 w}{\partial x^2} + \frac{\partial^2 w}{\partial x \partial y^2} \right) \cos \alpha - \left(\frac{\partial^2 w}{\partial y^2} + \right. \right. \\ & \left. \left. + \frac{\partial^2 w}{\partial x^2 \partial y} \right) \sin \alpha \right\} w \, dl + (1-\nu) \sum_{j=1}^m \left[\left(\frac{\partial^2 w}{\partial y^2} - \frac{\partial^2 w}{\partial x^2} \right) \sin \alpha \cos \alpha + \right. \right. \end{aligned}$$

Card 2/4

L 10793-66

ACC NR: AT6001080

$$+ \frac{\partial^2 w}{\partial x \partial y} (\cos^2 \alpha - \sin^2 \alpha) \left. w \right|_{l-l_j}^{l-l_{j+1}} \Big\},$$

and the work of external forces is

$$A = \iint_S q w \, dx \, dy - \sum_{j=1}^m \oint_{L_j} M_n \frac{\partial w}{\partial n} \, dl +$$

$$+ \sum_{j=1}^m \oint_{Y_j} \left(Q_n - \frac{\partial M_{nl}}{\partial l} \right) w \, dl + \sum_{j=1}^m M_{nl} w \left. \right|_{l-l_j}^{l-l_{j+1}}$$

The network system is applied to the plate as is indicated in Figures 2 and 3,

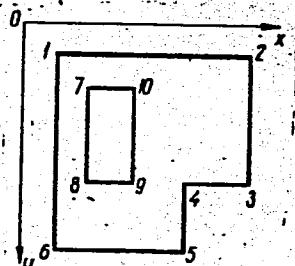


Fig. 2

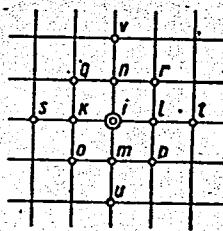


Fig. 3

Card 3/4

L 10793-66

ACC NR: AT6001080

where straight line segments $L_j^{(1)}$ are perpendicular to the x-axis and segments $L_j^{(2)}$ are perpendicular to the y-axis. The ensuing quadratic network is used for substituting summation by the rectangular formula into the integral terms of the given energy expression. Differential substitutions are accomplished by computation of central differences. The authors develop and illustrate the mechanics of defining and evaluating the summation terms. The method presented was applied to the formulation of systems of difference equations for plates of variable stiffness, anisotropic plates, contact problems, and shells.¹² The results of the applications are to be published in subsequent articles. Orig. art. has: 10 figures and 8 equations.

SUB CODE: 20/ SUBM DATE: 14May65/ ORIG REF: 002

Card
4/4

DDR/General Problems of Pathology. Immunity

U-1

Abs Jour : Ref Zhur - Biol., No 13, 1958, No 60964.

Author : Pogany I., Royti M.

Inst : -

Title : Changes in the Fractions of Horse Serum when Immunized Against Malignant Anthrax.

Orig Pub : Acta veterin. Acad. sci. hung. 1957, 7, No 1, 95-98

Abstract : A prolonged immunization of horses was made by agar culture of encapsulated bacillus of malignant anthrax (Pasteur Strain II). The culture was first injected subcutaneously, and later intraveneously and subcutaneously at the same time. Investigations made by electrophoresis on starch, of 5 serums, prior to immunization, after subcutaneous injections (after 6 weeks) and as long as the immunization course lasted, revealed: (a corresponding) decrease of the albumen level: plus alpha-globulin from 52.73 to 33.36 and 31.66 percent; of alpha 2 globulin from 12.8 to 4.73 and 3.28 percent; an increase in the content of beta-globulins from 17.5 to 39.23 and 24.2 percent; and of

Card : 1/2

14

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7

ROYTIK A.M.
GORELIK, S.I., inzhener; GUZOVICH, G.A., inzhener; POLLAK, S.V., inzhener;
ROYTIK, A.M., inzhener.

Shortening the distances of control cables in large hydroelectric
power stations. Elek.sta. 28 no.8:37-38 Ag '57. (MIRA 10:10)
(Hydroelectric power stations)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7"

L 14995-66 EWP(e)/EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b) IJP(c)
MJW/JD/HW/JG

ACC NR: AP5028567 (N)

SOURCE CODE: UR/0126/65/020/005/0785/0787

AUTHOR: Karmanova, Ye. G.; Kuleshova, V. D.; Roytman, A. A.; Knoroz, M. M.

ORG: Northwestern Extramural Polytechnic Institute (Severo-Zapodnyy politekhnicheskiy institut); Leningrad Steel Mill (Lenngradskiy staleprokatnyy zavod)

TITLE: Change in the electrical resistivity of Fe-Co-V alloys of the permendure type

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 5, 1965, 785-787

TOPIC TAGS: alloy system, iron, cobalt, vanadium, resistivity, ordered alloy

ABSTRACT: Deceleration of the ordering process in iron-cobalt alloys containing from 35 to 67.5% cobalt, and its affect on preserving the disordered state by alloying the binary iron-cobalt system with vanadium was investigated. Changes in electric resistivity were studied as a function of temperature for disordered Fe-Co-V alloys. Three industrial alloys with the following chemical contents were used in the study:

UDC: 538.245 : 537.311.31

Card 1/4

L 14995-66

ACC NR: AP5028567

J

Chemical composition, wt %

Alloy #	C	Mn	Si	P	S	Ni	V	Co
1	0,03	0,16	0,09	0,008	0,011	0,35	1,84	49,80
2	0,03	0,22	0,08	0,006	0,008	0,30	1,76	49,68
3	0,04	0,13	0,14	0,012	0,012	0,23	1,51	50,61

Hot rolled strips of 2 mm thickness were water quenched and cold rolled to a final thickness of 0.2 mm. The preliminary quench and subsequent cold deformation (87%) were necessary for obtaining the disordered state. Samples 250 mm in length were heated in a vacuum to temperatures of 200, 300, 400, 500, 600, 640, 660, 700 and 750°C for periods of 1 and 7 hrs. Relative changes in resistivity were obtained and compared to the cold worked condition.

10

Card 2/4

L 14995-66

ACC NR: AP5028567

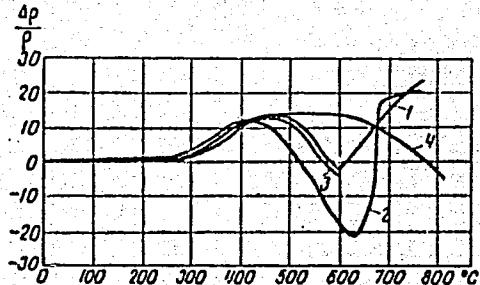


Fig. 1. Change in electric resistivity of cold worked Fe-Co-V alloys as a function of temperature of heating.

In the cold worked (disordered) state the values of electric resistivity for the alloys designated 1-3 were 0.339, 0.331 and 0.342 ohms \times mm 2 /m, respectively. The maximum in the resistivity change occurred at 400 to 450°C and the minimum at about 600 to 640°C. Curve 1 represents annealing times of 1 hr; curve 2, 7 hrs. The 7 hr annealing time resulted in a steeper minimum with a drop in resistivity of 22%. Above 660°C an increase in resistivity resulted. The significant drop in resistivity was attributed to ordering processes which increased in magnitude with annealing time. The highest degree of ordering occurred at 640°C. Curve 3 was taken from

Card 3/4

L 14995-66

ACC NR: AP5028567

the literature for heating from 200 to 600°C for 1 hr. Curve 4 was taken from Kadykova, G. N., et al [FMM, 1956, 3, 3, 486]. This contradictory curve was obtained for a 1.3% V alloy (permendure) as a function of heating temperature. Orig. art. has: 1 figure, 1 table.

SUB CODE: 11/ SUBM DATE: 09Nov64/ ORIG REF: 003/ OTH REF: 001

Magnetic alloy 18

PC
Card 4/4

ACC NR: AP6006436

SOURCE CODE: UR/0420/65/000/003/0044/0047
43
42

AUTHORS: Krasnikov, A. S.; Roytman, A. B.

ORG: none

TITLE: Effects of friction forces on the stability of pipes with flowing liquids

SOURCE: Samoletostroyeniye i tekhnika vozduzhnogo flota, no. 3, 1965, 44-47

TOPIC TAGS: pipe vibration, pipe instability, fluid flow, pipe suspension

ABSTRACT: The work of V. I. Feodos'yev (Izbrannyye zadachi i voprosy po soprotsivleniyu materialov. Gostekhteorizdat, 1953) on the critical velocity of flow in fluid pipes (lateral instability) is extended to the case of axially restrained pipes. Three cases are considered: a) the left end is fixed and the right end is free in the axial direction (flow to the right); b) the left end free and right end fixed; and c) both ends fixed. The equation for the unbalanced loaded pipe is formulated in integral form, and the solution is found in the form of a series. The equations for the critical velocities for cases a and b are found as

$$V_{2n+1} = \frac{(2n+1)\pi}{l} \sqrt{\frac{EI}{\frac{\gamma}{g} F(2n+1) + C_{fl} l \frac{\gamma}{2g}}}$$

Card 1/2

L 32679-66

ACC NR: AP6006436

and

$$V_{2n+1} = \frac{(2n+1)\pi}{l} \sqrt{\frac{EI}{(2n+1)\frac{l}{g}F - C_I \Pi I \frac{l}{g}}}.$$

respectively, while no simple solution for case c could be found. Curves of the ratio of frictional to inertial forces as a function of Reynolds number are presented for various pipe diameters, and it is found that for $Re = 10 - 10^6$ the ratios are higher or near 1. It is concluded that fluid friction is of major importance in pipe stability and that pipe restraint of type a reduced the danger of pipe fatigue. Orig. art. has: 7 formulas and 3 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 003

Card 2/2 BLG

SOV/32-25-4-21/71

~25(6), 24(3)

AUTHOR:

Roytman, A. A.

TITLE:

The Problem of Magnetic Tests at Cold-rolled Textured Electrical Steel (K voprosu magnitnykh ispytaniy kholodnokatany teksturevannoy elektrotekhnicheskoy stali)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 433-434 (USSR)

ABSTRACT:

The types of steel mentioned in the title were investigated. They were made in form of tape rolls (0.03-0.35 mm thick and over). Under equal processing conditions, the degree of the completeness of texture is not the same for different charges and must therefore be determined besides the magnetic properties. The domestic industry unfortunately does not manufacture a suitable anisometer. At the Leningradskiy staleprokatnyy zavod (Leningrad Steel Rolling Mill) the tempering of the samples is carried out jointly with the tape rolls so that the properties of the samples should correspond to those of the metal strips. For samples of thin metal strips (0.03-0.2 mm), bands 1.5-2.5 m long were cut off and wound on a template with 50 mm diameter. Tallow and a suspension of SiO_2 and MgO on the basis of organosilicon varnishes, FG-9 and K-44 and

Card 1/2

T-0/5

SOV/32-25-4-21/71

The Problem of Magnetic Tests at Cold-rolled Textured Electrotechnical Steel

toluene were used as insulation between the windings. Strips of transformer steel (0.35-0.5 mm thick) were also made in form of rolls. The samples were prepared as packs or - as mentioned above - as toroids. The determination of the specific losses and of the induction of these strips are best carried out with large and small Epstein's devices at frequencies of 50 and 400 cycles per second; the induction measurements should be made in tension fields of 0.001 to 5 oersted with toroidal samples. The calculation of the tension of the field is carried out according to a known equation.

ASSOCIATION: Leningradskiy staleprokatnyy zavod (Leningrad Steel Rolling Mill)

Card 2/2

I 3543-66 EPA/EWT(m)/EPW(w)/EPF(c)/EPF(f)/EPF(n)-2/T/ETC(m) KW/EM/DJ
ACCESSION NR: AP5024423 UR/0286/65/000/015/0126/0126

AUTHORS: Krasnikov, A. S.; Berim, I. G.; Roytman, A. B.

51
B

TITLE: A damper for an aircraft gas turbine engine. Class 47, No. 173548

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 126

TOPIC TAGS: aircraft engine, gas turbine, engine component

ABSTRACT: This Author Certificate presents a damper for an aircraft gas turbine engine, made in the form of a group of bands bent into open rings and working in oil. To insure the pliability of the damper and to make it work in a small quantity of oil, the rings are so turned in respect to one another that in each pair the opening of one is diametrically opposite to the opening in the other. The openings in the inner rings of the adjacent pairs are turned at an angle to one another. The size of this angle is computed by the formula $360^\circ/n$, where n is the number of rings.

ASSOCIATION: none

SUBMITTED: 26Aug63

ENCL: 00

SUB CODE: II, PR

NO REF SOV: 000

OTHER: 000

Card 1/1 mkr

L 3543-66 EPA/EWT(m)/EWP(w)/EPF(c)/EWP(f)/EPF(n)-2/T/ETC(m) WH/EM/DJ
ACCESSION NR: AP5024423 UR/0286/65/000/015/0126/0126

AUTHORS: Krasnikov, A. S.; Berim, I. G.; Roytman, A. B. 5/
44,54 44,54 44,55

TITLE: A damper for an aircraft gas turbine engine. Class 47, No. 173548 B
44,54 23,44,55

SOURCE: Byulleten' izobreteniy i tovarknykh inakov, no. 15, 1965, 126

TOPIC TAGS: aircraft engine, gas turbine, engine component

ABSTRACT: This Author Certificate presents a damper for an aircraft gas turbine engine, made in the form of a group of bands bent into open rings and working in oil. To insure the pliability of the damper and to make it work in a small quantity of oil, the rings are so turned in respect to one another that in each pair the opening of one is diametrically opposite to the opening in the other. The openings in the inner rings of the adjacent pairs are turned at an angle to one another. The size of this angle is computed by the formula $360^\circ/n$, where n is the number of rings.

ASSOCIATION: none

SUBMITTED: 26Aug63

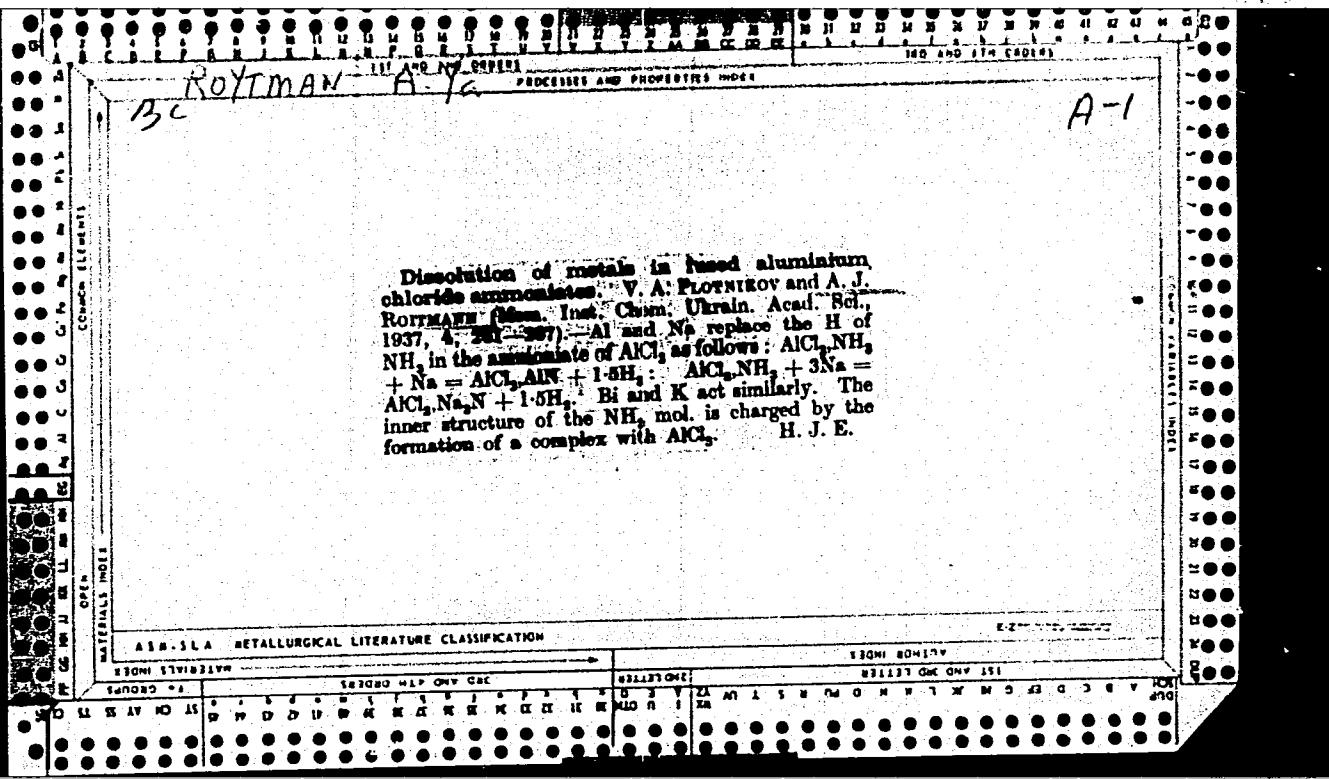
ENCL: 00

SUB CODE: IE, PR

NO REF SOV: 000

OTHER: 000

Card 1/1 m/r



"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7

ROYTEIN, A. Y.

"Iditol--A Substitute for Fir Balsam in Histological Practice". Arkhiv. Patol.

11, No. 3, 1949. (Kiev) -c1949-.

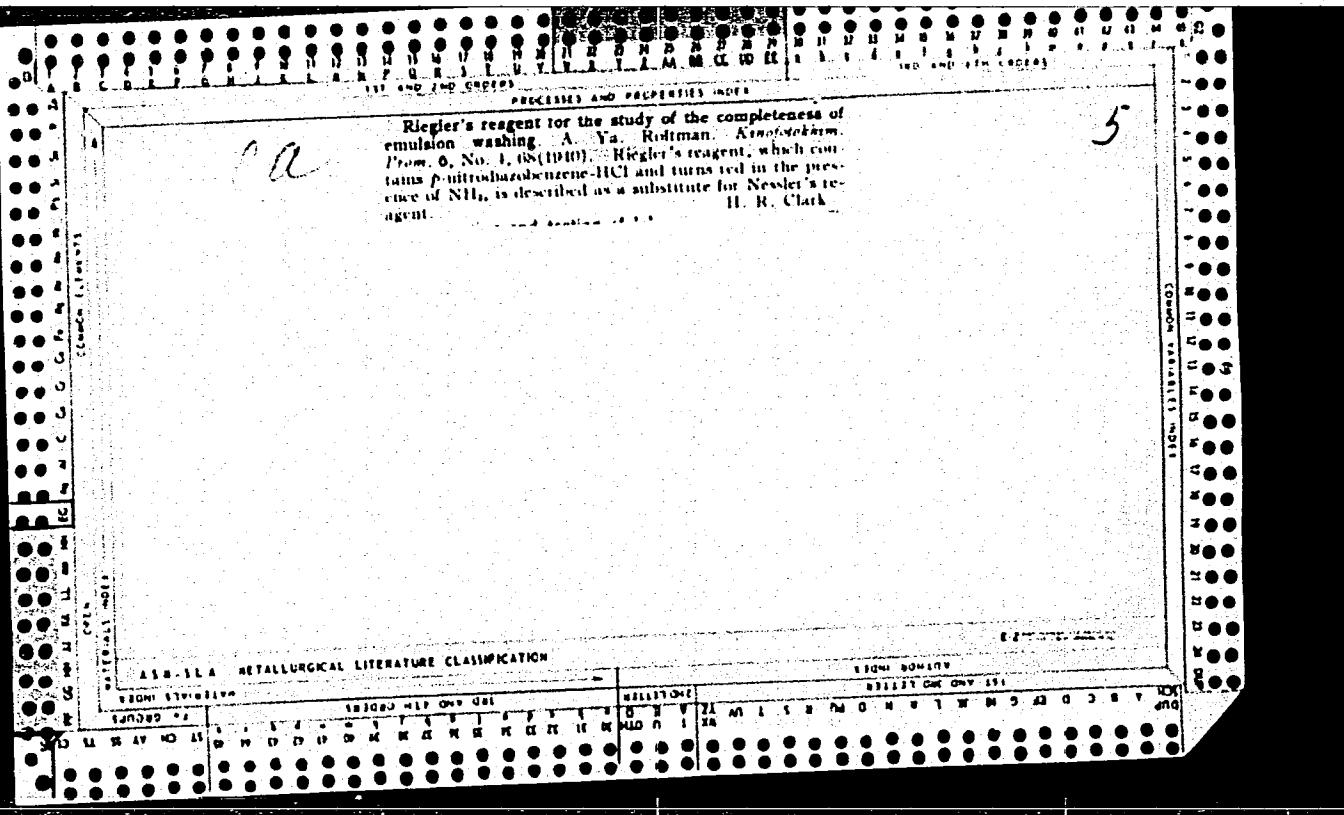
APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7"

CA ROYTMAN, A.Ya.

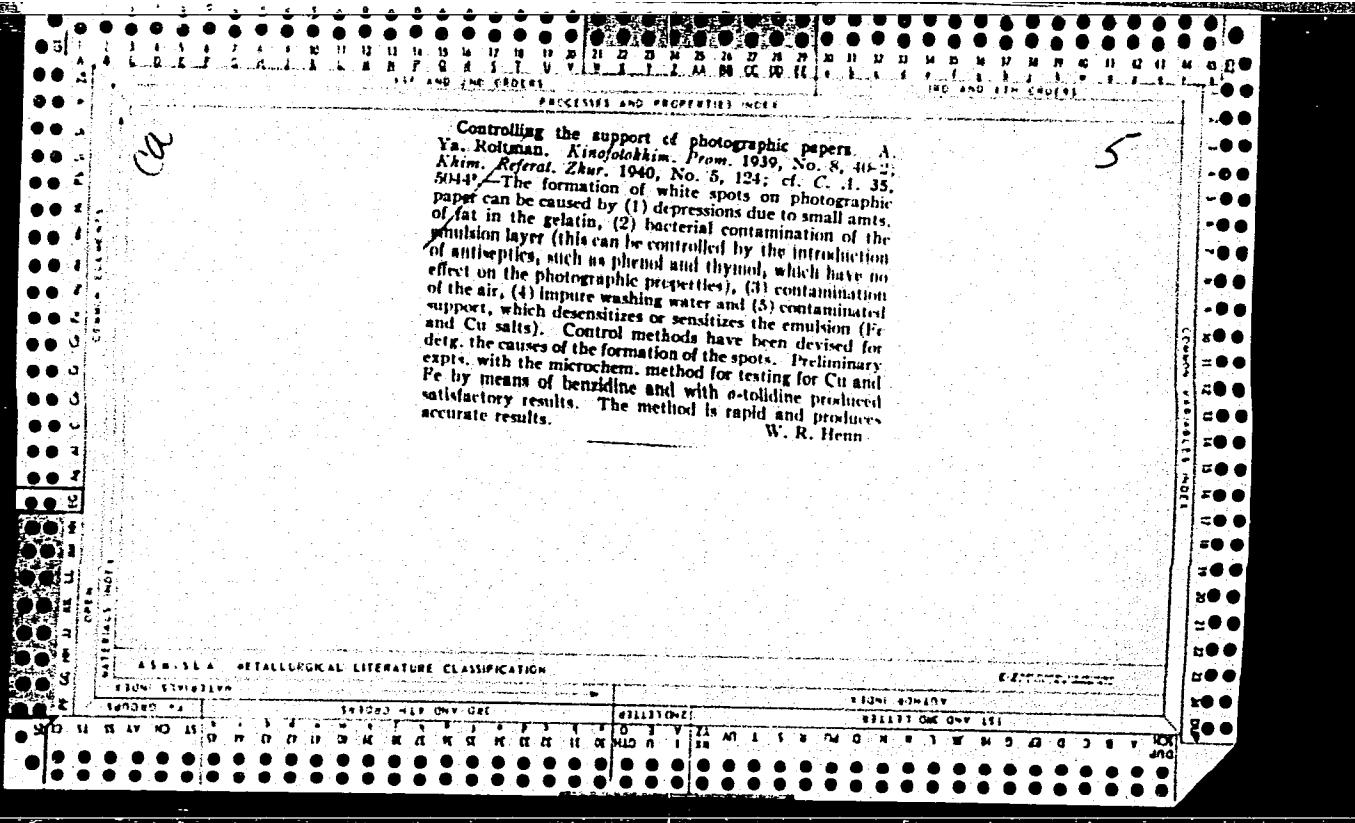
31

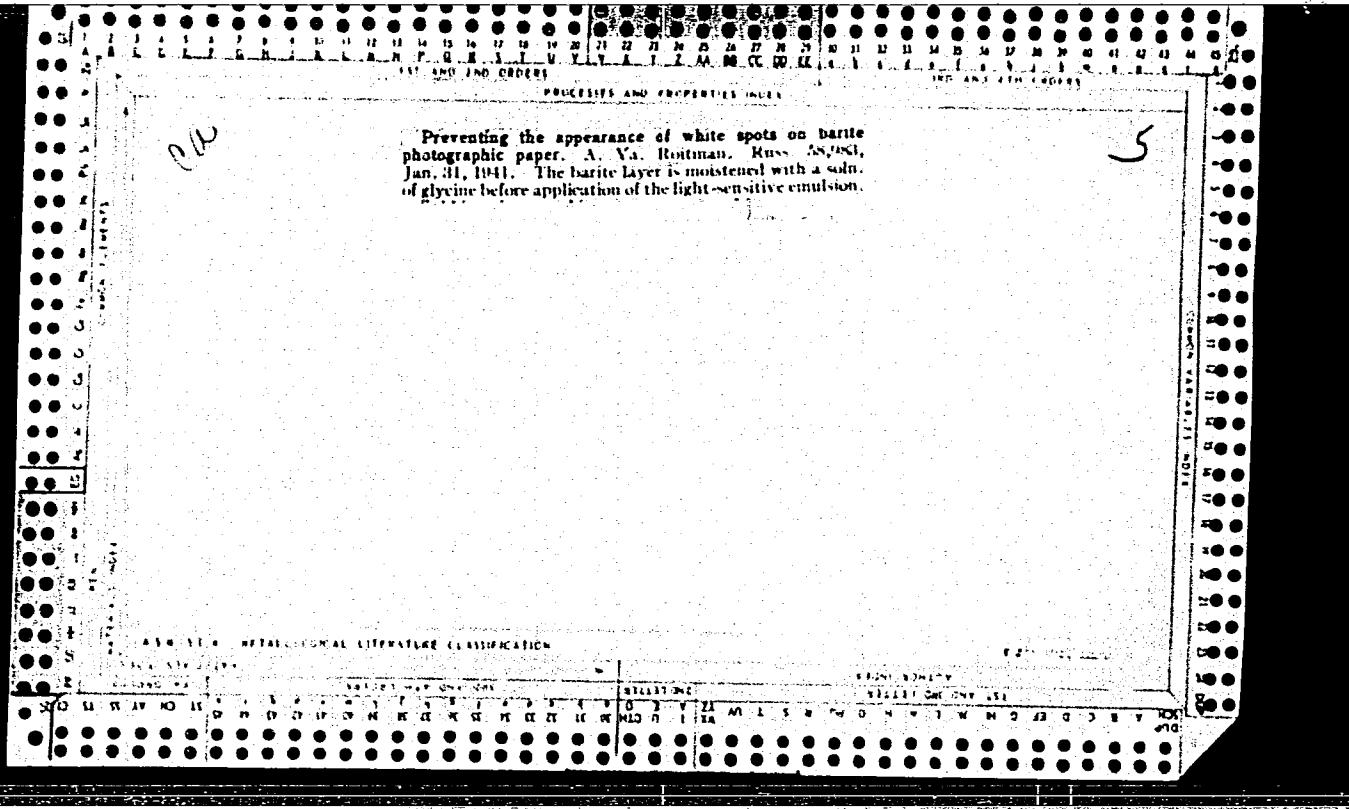
Iditol—a substitute of pine balsam in histological practice. M. K. Dal and A. Ya. Roltman, *Arkh. Patol.*, 11, No. 3, 92-3 (1949).—Iditol—a Soviet-made phenol-formaldehyde condensate—is readily sol. in EtOH at 40-50° forming a liquid closely comparable physically with pine or Canada balsams. It m. 95-105°, and has n_D^{20} 1.5-1.51, i.e. very close to common glasses. It can be satisfactorily used for mounting histological slides.
G. M. Kosolapoff



Rapid detection of copper and iron inclusions in [photographic] base paper. A. Ya. Rotman. *Rechka*, No. 3, 31-3(1940). A strip of the paper to be tested (6 x 9 cm.) is treated in a Petri dish with 1 ml. of 1% benzidine or *o*-toluidine in alc., and 25 ml. of the McIlvaine buffer soln. (pH = 8) for 1-2 min., and, after washing with H₂O, is worked up with 30% NH₄SCN. The appearance of blue color indicates the presence of Cu or Fe. Chay Blane

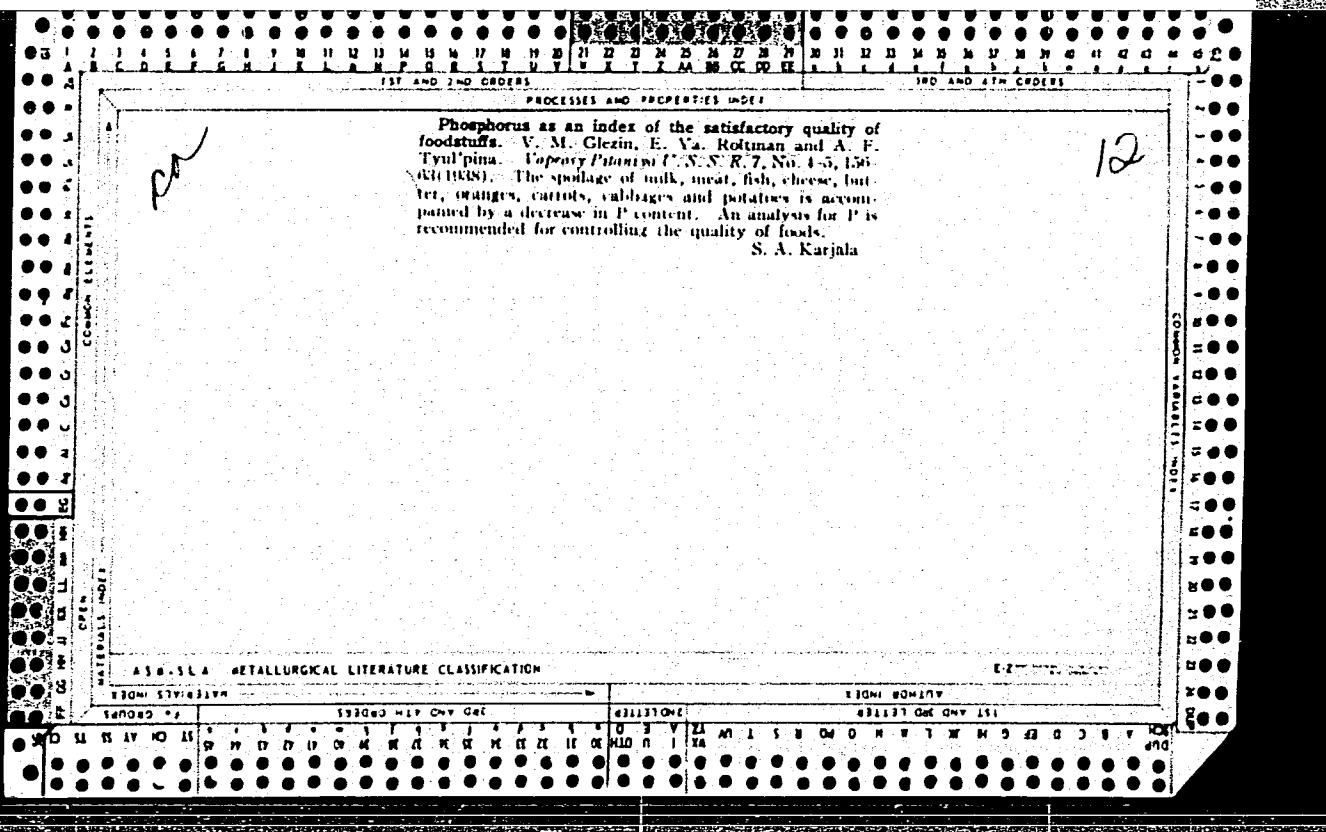
Rapid control method for subbing of photographic papers. A.Ya. Roltman. *Kinoftotekhnika*, Prom. 6, No. 9, 3, 8(1940); Cl. C-1, 34, 1679. R. describes a very simple and rapid method for testing the quality of subbing during production by means of a single reagent solution. Two stock solutions of 25% NH₄CNS and 0.5% a-toluidine were mixed in the ratio 9:1 and a sample of the subbed paper was dipped into it. The appearance of blue spots indicates that white spots have been formed after emulsion coating. The soln. can be used for about 1 working day. About 30% of the spots appearing after this test will be noticeable after development to a medium d. This indicates that the test with a-toluidine is very sensitive. A test revealed that these points are due to Cu inclusions. The same immersion test with a-toluidine and H₂O₂ disclosed the presence of Fe²⁺ in the subbed paper. These spots will develop as black spots in the emulsion. By this double test, therefore, spots that will be black and white spots in the emulsion can be discovered earlier in the subbed paper. W.R. Fichter





2

Solution of metals in molten aluminum chloride monoammine. V. A. Plotnikov and A. Ya. Roltman. *Mem. Inst. Chem., Akad. Nauk Ukrainsk. SSR*, No. 3, 261 (in German 267) (1957). H was given off in the reaction of AlCl_3NH_3 with Na, K, Bi and Al. The reaction proceeds as follows: $\text{AlCl}_3\text{NH}_3 + \text{Al} \leftarrow \text{AlCl}_3\text{AlN} + 3:2\text{H}_2$; $\text{AlCl}_3\text{NH}_3 + 3\text{Na} = \text{AlCl}_3\text{Na}_3\text{N} + 3:2\text{H}_2$. With Al the yield of H was 98.7%. The liberation of H is due probably to the changed inner structure of the NH_3 mol. when it formed AlCl_3NH_3 . The structure of this compd. is to be investigated by x-rays. B. Z. Kamich



ROYTMAN ASYAR

600

1. ROYTMAN, A. V.A.

2. USSR (600)

4. Photography - Papers

7. Improving the quality of photographic paper., Bum. prom. no.6, 1951.
Laboratoriya Kiyevskoy Fotobumazhony Fabriki

9. Monthly List of Russian Accessions, Library of Congress, April 1952, Unclass.

ROYTMAN, A.Ya.

✓ 1258. Determination of silver in production control of light-sensitive photographic materials.
I. M. Kulberg and A. Ya. Roytman. Uch. Zap. Saratovsk. Univ., 1954, 6, 142-143. *Referativnyj ZA., Khim., 1955, Abstr. No. 14,103.*—Silver halide from the material to be analyzed is brought into solution by treatment with a mixture of H_2SO_4 and HNO_3 , either directly or after preliminary reduction, and Ag^+ are titrated with iodine in KI solution, in the presence of starch. The method is applicable to the analysis of photo-emulsions, ptd. photo-emulsions, emulsion washings, ashes of waste photo-paper and photo-materials prepared for use.
G. S. SMITH

ROYTMAN, A. Ya.

USSR/Medicine - Iditol
Histology

May/Jun 49

"Iditol, a Substitute for Fir Balsam in Histological Practice," M. K. Dal', A. Ya.
Roytman, Kiev, 1 $\frac{1}{2}$ pp

"Arkh Patol" No 3

Discusses physical properties of iditol preparations made for use in histological practice. Its price is about 6 rubles per kg in comparison to 315 rubles per kg of fir balsam. Cites tests carried out in the Kiev Tuberculosis Inst on the Suitability of iditol as a substitute for fir balsam. Results were completely satisfactory.

PA 1/50T41

AKBROYT, D., inzhener; VINOGRADOV, G.T., inzhener; VOSKOBONIK, N.S.,
inzhener; ROYTMAN, B.M., inzhener.

Combined erection of boilers and metal structural elements using
tower cranes. Elek.sta. 27 no.11:49-50 N '56. (MIRA 10:1)
(Cranes, derricks, etc) (Boilers) (Electric power plants)

EXCERPTA MEDICA Sec 17 Vol 5/2 Public Health Feb 59

488. ANTI-INFLUENZA IMMUNIZATION IN INDUSTRIAL COMMUNITIES (Russian text) - Rofitman E.A. - VOPR. VIRUSOL. 1958, 2 (86-90) Graphs 7
Tables 2

Dried live polyvalent influenza vaccine was used for intranasal vaccination of 8,839 persons in 7 industrial centres. 2,934 unvaccinated persons served as a control group. The vaccination reduced the attack rate of influenza and upper respiratory tract catarrhs by a factor of 1.8 and the duration of the illness by 0.2 day on the average. Analysis of the data indicated that vaccination was more effective in groups with a high attack rate provided that inoculations were carried out before the rise of the incidence. Vaccination of groups exposed to unfavourable meteorological factors proved to be ineffective.

(IV,17)

KRITSKIY, G.A.; ROYTMAN, F.I.

Nucleotide metabolism in the bone marrow under normal conditions
and following X irradiation. Biokhimija 26 no. 1:148-154 Ja-F
'61.
(MIRA 14:2)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R.,
Moscow.
(MARROW) (X RAYS—PHYSIOLOGICAL EFFECT) (NUCLEOTIDES)

ROYTMAN, I., mayor; ANDREYEV, I., kapitan

In order to conduct fire independently. Voen. vest. 42 no.1:
11C-113 Ja '63. (MIRA 17:4)

BOTVINNIKOV, Aleksandr Davidovich, kand. ped. nauk; ROYTMAN,
Izrail' Abramovich; ANOKHIN, Grigorii Aleksandrovich;
SHAPOSHNIKOVA, A.A., red.; NOVOSELOVA, V.V., tekhn.red.

[Teaching the reading of mechanical drawings during the
vocational training of students] Obuchenie chteniu cher-
tezhei v protsesse professional'noi podgotovki uchashchikh-
sia. Moskva, Izd-vo APN RSFSR, 1962. 172 p.

(MIRA 16:10)

(Mechanical drawing--Study and teaching)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7

ROYTMAN, I.A. (Moscow).

Reading and detailing of the simplest assembly drawings. Politekh.
obuch. no.6:43-47 Je '58. (MIRA 11:6)
(Mechanical drawing)

APPROVED FOR RELEASE: 07/19/2001

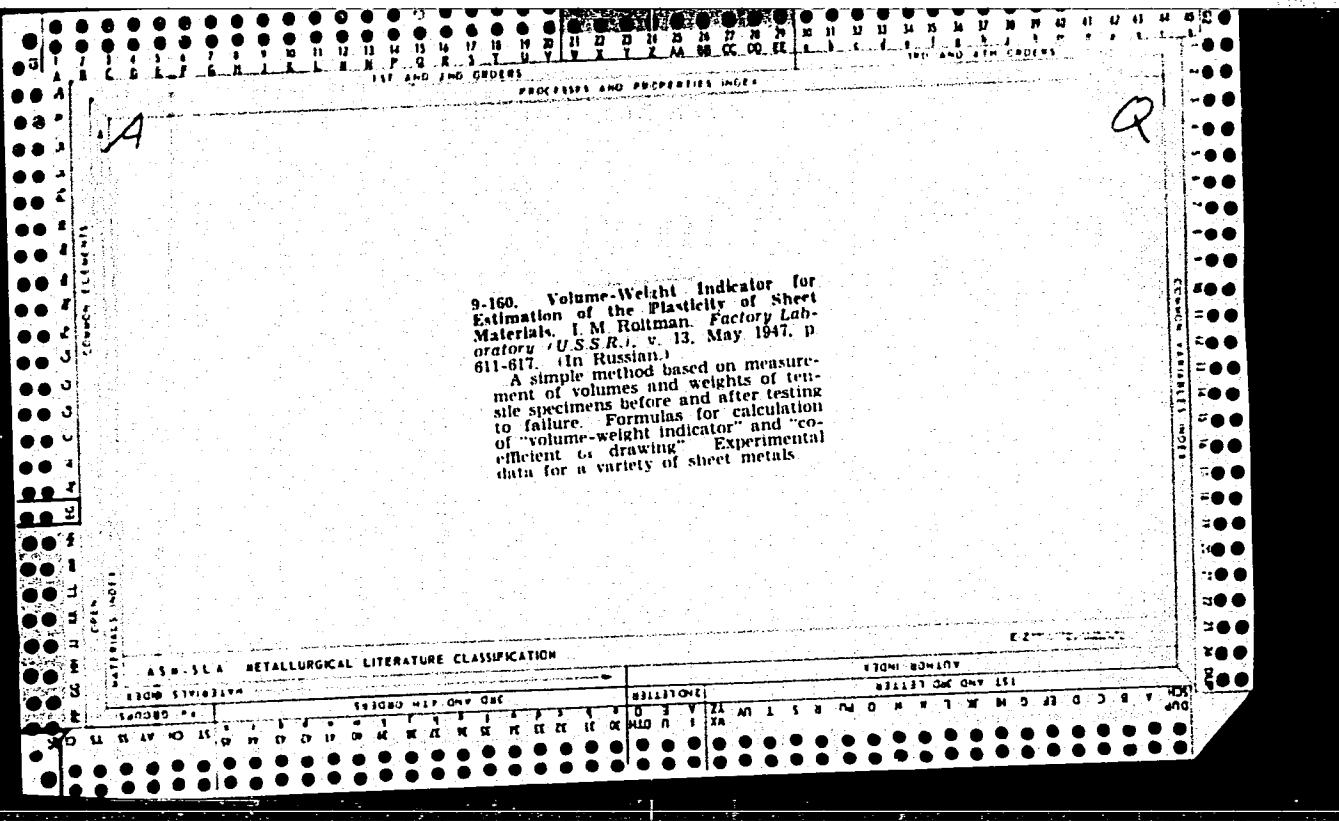
CIA-RDP86-00513R001445520012-7"

ROYTMAN, I.A.

Photocopying of drawings in school. Politekh.obuch. no.10:50-53
0 '58. (MIRA 11:11)
(Lumiprints--Equipment and supplies)

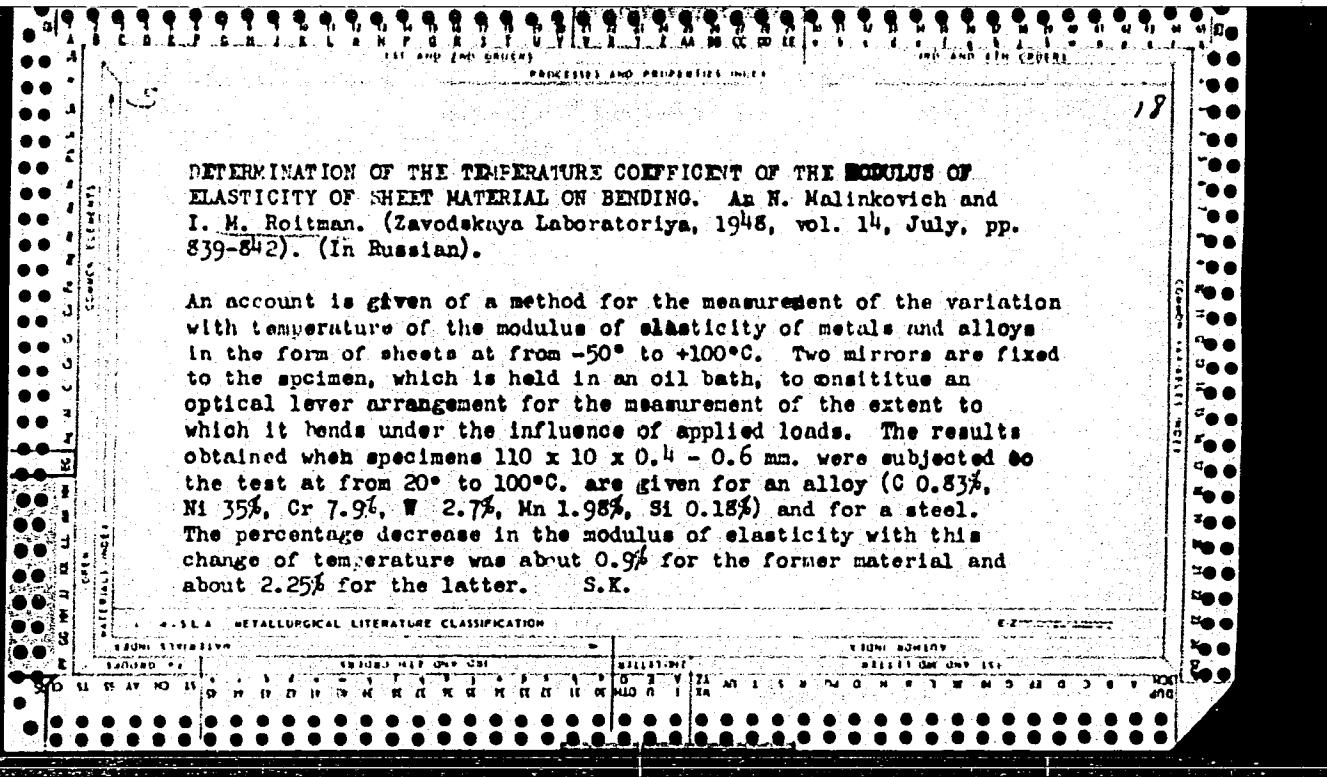
ROYTMAN, I.A. (Moskva).

Using the method of orthogonal projections for solving stereometric
problem. Mat.v shkole no.6:39-43 N-D '56. (MIRA 10:1)
(Geometry, Projective--Study and teaching)



ROYTMAN, I. M. and FRIDMAN, Ya. B.

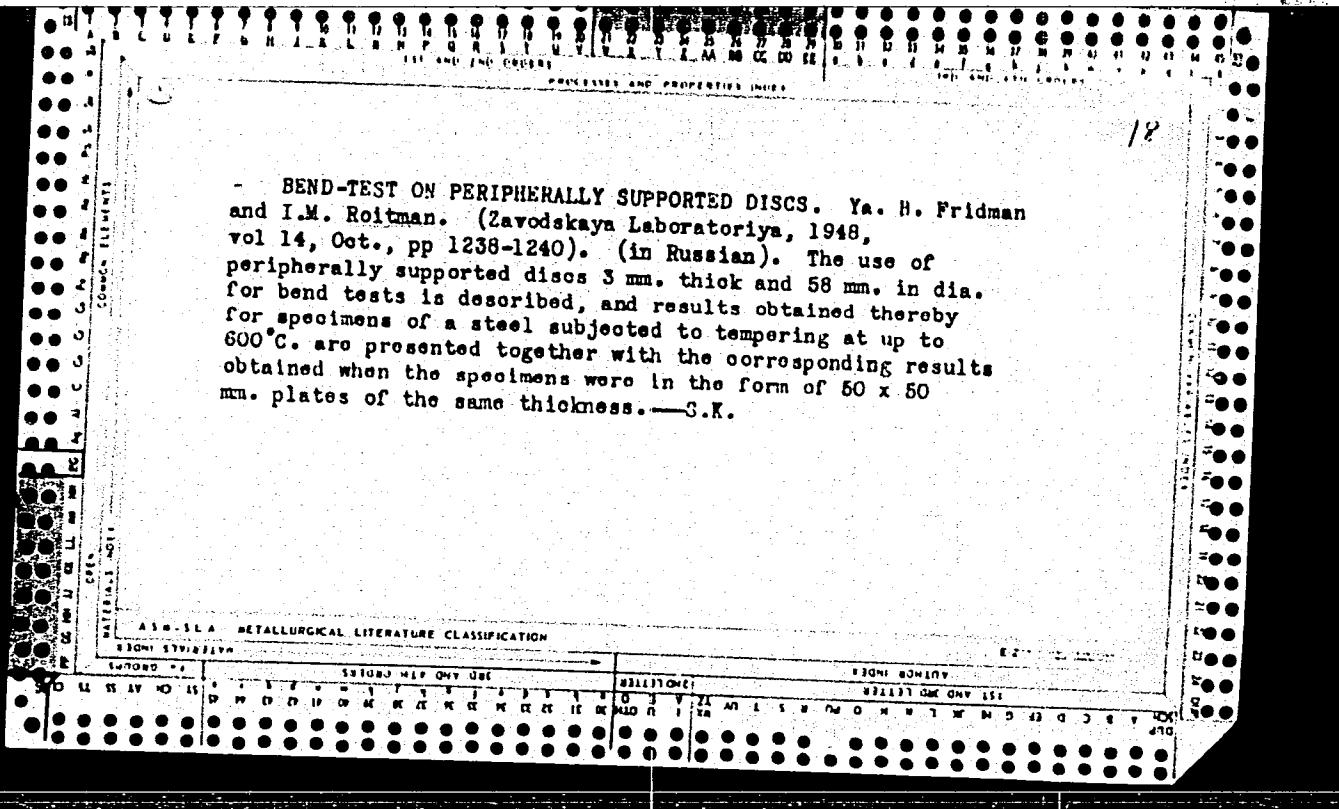
"The Influence of Alternating Plastic Deformation on the Non-Equilibrium Alloys," Dok.
AN, 57, No. 9, 1947



THE INFLUENCE OF BENDING DURING TOESION TESTING. I. M. Roitman
and Ya. B. Fridman. (Zavodskaya Laboratoriya, 1948, vol. 1st, Aug.
pp. 969-972). (In Russian).

An account is given of torsion tests carried out on slightly Bent
specimens; it is concluded that bending up to 4° does not have
an appreciable effect on the results of torsion tests for most
materials subject to failure by shearing. S.K.

18



KOYTKIN, I. M.

Mfr., All-Union Inst. Aviation Materials, -c1948-.

"Determining the Temperature Coefficient of the Elastic Module in Lamina Subjected to Bending Stress," Zavod. Lab., 14, No. 7, 1948;

"Effect of Bending during Torsion in Testing," ibid, No. 8, 1948;

"Micromechanical Method of Studying Materials," Zhur. Tekh. Fiz. No. 3, 1949;

"Methods of Micromechanical Testing," Zavod Lab., 16, No.5, 1950;

"Application of the Micromechanical Method to investigation of Zonal Properties in the Welded Joint," ibid, No.6, 1950.

ROYTMAN, I. M.

Cand. Tech. Sci.

Dissertation: "Micromechanical Method for Testing Metals."

5 Oct. 49

Scientific Council of the All Union Sci. Res. Inst. of Aviation Materials

SO Vecheryaya Moskva
Sum 71

ROYTMAN, I. M.

PA 38/49T83

USSR/Engineering
Stress Analysis
Strength - Testing

Mar 49

"Micromechanical Method of Studying Materials,"
I. M. Roytman, Ya. B. Fridman, 10 pp

"Zhur Tekh Fiz" Vol XIX, No 3 p. 424-30

Developed micromechanical method to test materials
under tension, bending, torsion, and shearing.
Worked out new construction for universal
"micromachine," which permits static tests to be
carried out under various forms of load. Introduces
example using micromechanical method to study the
dimensional factor, the deformed state in the neck

38/49T83

USSR/Engineering (Contd)

Mar 49

of elongated sample, and mechanical characteristics
in various parts of welded joints. Submitted
23 Nov 48.

38/49T83

ROYTMAN, I. M.

USSR/Metals - Tests, Micromechanical Testing Procedures May 50

"Methods of Micromechanical Testing," I. M. Roytman, Ye. B. Fridman, 1 $\frac{1}{2}$ pp

"Zavod Lab" Vol XVI, No 5

PA 160T76

Briefly reviews development of methods for micro-mechanical investigation of metals, describes microspecimens and equipment, and discusses accuracy of micromechanical methods, effect of machining on properties of microspecimens, and influence of scale factor on experimental results

160T76

USSR/Metals - Tests, Micromechanical (Contd) May 50

Evaluates significance of micromechanical methods in solution of numerous theoretical and practical problems and enumerates purposes of possible application of these methods.

160T76

ROYTMAN, I. M.

New Machine for Fatigue-Tests on Thin Sheet Metal. I. M. Roytman, (Zavodskaya Laboratoriya 1955, 21, (8), 983-988).
[In Russian]. A new fatigue-testing machine, developed at the Soviet Weights and Apparatus Research Institute, is described in which the thin test-piece is subjected to pure bending. Test pieces 0.2-1 mm thick can be subjected to maximal bending moments of ± 15 kg/cm with a symmetrical loading cycle of 22 kg/cm when the cycle is non-symmetrical, the maximal deflection and cyclic loading frequency being $\pm 30^\circ$ C and 60 cycles/s. The theory of producing pure bending at high frequencies is considered and data are given on the accuracy of test results.—S. X.

ROYTMAN, I.M.

✓ Method of Observing the Alternating Cyclic Load of Hydraulic Pulinating Testing Machines Z.I. M. Roytman. (Zavodskoye Laboratoriya, 1953, No. 11, 1978-1980). (In Russian). The incorrect results often obtained with existing methods of operating the valve in the registering system of devices for measuring alternating cyclic loads produced by hydraulic pulsators are considered, and an improved method is described. The method is based on changing the rate of rotation of the valve in such a way that the frequency with which the manometers are connected to the working space of the cylinder differs by a certain amount from the pulsator frequency. A variable cyclic load or only its limiting values can be observed or recorded.—S. K.

g/m

Sci Res Inst. ~~measuring instruments~~
(NII resov i priborov)

ROYTMAN, I. M.

Methods of checking one-way hydraulic pulsator testing machines. Izm.
tekhn. no. 2:61-65 Mr-Ap '56. (MIRA 9:7)
(Testing machines) (Dynamometer)

ROYTMAN, I.M.

Category : USSR/Solid State Physics - Mechanical Properties of Crystals and Polycrystalline Compounds E-9

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3963

Author : Roytman, I.M.

Title : Development of a Micromechanical Method of Materials Testing

Orig Pub : Zavod. laboratoriya, 1956, 22, № 7, 834-840

Abstract : No abstract

Card : 1/1

ROYTMAN, I. M.

Development of the Micro-Mechanical Method of Testing Materials. I. M. Roytman. (Izdatel'stvo Laboratoriya, 1966, 92, (7), 834-840). [In Russian]. Micro-mechanical testing machines are divided into two groups according to the principles of their operations. Examples of each type are considered, their construction and operating characteristics being outlined. - s. K.

R.D.T.M.S.A.I. / M.
P.B. PHASE I BOOK EXPLOITATION

SOV/3891

Moscow. Nauchno-issledovatel'skiy institut vesov i priborov

Vesoiizmeritel'nyye pribory i ispytatel'nyye mashiny; teoriya i raschet, [vyp. 1]
(Load-Measuring Devices and Testing Machinery; Theory and Design, [no. 1])
Moscow, Mashgiz, 1959. 178 p. 3,600 copies printed.

Sponsoring Agency: RSFSR. Moskovskiy ekonomicheskiy rayon. Sovet narodnogo
khozyaystva.

Ed.: N.A. Mironov, Engineer; Ed. of Publishing House: L.G. Prokof'yeva; Tech.
Eds: Z.I. Chernova and V.D. El'kind; Managing Ed. for Literature on Machine
and Instrument Construction (Mashgiz): N.V. Pokrovskiy, Engineer.

PURPOSE: This collection of articles is intended for scientific workers and technical personnel specializing in weighing devices, instrument construction, and related fields. It may also be useful to students of schools of higher technical education.

Card 1/3

Load-Measuring Devices and Testing (Cont.)

SOV/3891

COVERAGE: This collection of articles contains results of theoretical and experimental investigations of weighing and testing machines. The investigations were conducted by the Nauchno-issledovatel'skiy institut vesov i priborov (Scientific Research Institute for Weights and Instruments). The articles deal with analysis of errors in dial-type automatically balanced indicators and methods for designing indicator elements, experimental investigation of elastic imperfections in springs used for measuring forces, analysis of accuracy in dynamic-load measurement with high-frequency fatigue-testing machines, and the relation between the error of measurement of cyclic reversed loads and the degree of damping of oscillations of an elastic element. Also discussed are measurement of the accuracy of forces in a water tunnel and a method of checking indicators of hydraulically actuated fatigue-testing machines. References follow several of the articles.

TABLE OF CONTENTS:

Preface	3
Shirmanov, F.M. [Candidate of Technical Sciences] Dial - Type Automatic Balancing Indicators	5
Shirmanov, F.M. Three-Component Force-Measuring Devices for Water Tunnels	90
Card 2/3	

Load-Measuring Devices and Testing (Cont.)

SOV/3891

Felikson, Ye. I. [Candidate of Technical Sciences]. Investigation of Imperfections in the Elasticity of Force-Measuring Springs 118

Roytman, I.M. [Candidate of Technical Sciences]. Measurement of Dynamic Loads of Hydraulically Actuated [Fatigue-]Testing Machines 136

Bol'shikh, A.S. [Engineer]. Analysis of the Accuracy of Measuring Dynamic Loads in High-Frequency [Fatigue-]Testing Machines 166

Etkin, L.G. [Engineer]. Evaluation of Force-Excitation Effectiveness in Fatigue-Testing Machines Operating in a Self-Oscillation Regime 172

AVAILABLE: Library of Congress

Card 3/3

VL/pw/gmp
8-25-60

KANER, B.L.; ROYTMAN, K.Ya.

Taking problems of safety into account during the placement of equipment
in outdoor units. Zhur. VKHO 9 no. 3:319-324 '64. (MIRA 17:9)

ROYTMAN, L.I.

Spinal rhinogenic emphysema of the eyelids. Vest.otorin. 21
no.4:92 Jl-Ag '59. (MIRA 12:10)

1. Iz bol'nitsy stantsii Makhachkala-Port Ordzhonikidzevskoy
zheleznoy dorogi.
(EMPHYSEMA) (EYELIDS--DISEASES)

SOV/112-59-1-1299

8(0)

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 175 (USSR)

AUTHOR: Roytman, L. M., and Belozerskiy, S. S.

TITLE: Measuring and Controlling Small Fluid and Gas Discharges by Magnetic-
Transmission Rotameters

PERIODICAL: Novosti neft. tekhn. Neftepererabotka, 1957, Nr 7, pp 21-24

ABSTRACT: Soviet constant-drop rotametric flowmeters with movable resistance can be subdivided into two groups: (1) low-pressure, up to 6 kg/cm²; (2) high-pressure, 10-100 kg/cm². Each group can be subdivided into indicating, recording, and regulating instruments. Designs of some rotameters are discussed. The electric follow-up system is replaced by a permanent magnet system in the rotameter described in the article. The essence of the magnetic system is that a permanent magnet carried by the rotor causes a displacement of two external magnets which move the indicating pointer in the direct-reading instrument. For remote measuring, the instrument is equipped with a

Card 1/2

SOV/112-59-1-1299

Measuring and Controlling Small Fluid and Gas Discharges by Magnetic . . .

pneumatic system which varies the output air pressure in proportion with the pointer position. In this case, a conventional pressure gauge of 0-1 kg/cm² or a type MS sylphon pressure gauge can be used as an indicating instrument. The magnetic-transmission rotameter comprises three major parts: a measuring assembly, a pointer-and-lever mechanism, and a pneumatic device; design features of these parts are described in detail. Function of the magnetic-follow-up rotameter is explained, its appearance and a scheme of automatic control of a liquid or gas discharge are described, and technical instrument data is submitted. Examples of instrument application are given.

N. Ya. K.

Card 2/2

ROYTMAN, M., kand.tekhn,nauk; BARANOVSKIY, R., inzh.

Evacuation of the public from motion-picture theaters. Pozh.delo 7
no.3:10 Mr '61. (MIRA 14:5)
(Motion-picture theaters—Fires and fire prevention)

ROYTMAN, M., kand. tekhn. nauk; TARASOV-AGALAKOV, N., kand. tekhn. nauk

Standardization of evacuation procedures. Pozh. delo 9 no.6:
7-9 Je '63. (MIRA 16:8)

ACC NR: AP6032115

SOURCE CODE: UR/0301/66/012/005/0477/0483

AUTHOR: Roytman, M. I.ORG: Tashkent Scientific Research Institute for Vaccine and Sera, Ministry of Health
SSSR (Tashkentskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok Ministerstva
zdravookhraneniya SSSR)TITLE: The blood coagulation activity of Vipera Lebetina Turanica venom and its
neutralization by specific antisерум

SOURCE: Voprosy meditsinskoy khimii, v. 12, no. 5, 1966, 477-483

TOPIC TAGS: ~~medicine~~, medical research, snake venom, coagulant, antihemorrhagic,
~~anticoagulant~~, ~~anticoagulant~~ poison effect, coagulation, enzyme, antibody, vaccineABSTRACT: A new method of evaluating snake venom coagulase activity is
presented. The hemocoagulation activity of snake venom is an
important factor in the pathogenesis of snake bite injuries,
acting within an hour after the bite, and can be counteracted
by preliminary doses of heparin. The venom of *vipera Lebetina*
is a very powerful hemocoagulant and is used as a thrombo-
plastin substitute in the clinical determination of prothrombin
time and as an antihemorrhagic. It has much in common with the
proteolytic enzyme papain hastening the formation of fibrin

Card 1/2

UDC: 615.94:598.126-017.715+615.373.39:598.126

ACC NR: AP6032115

from fibrinogen and trypsin which catalyzes the prothrombin-thrombin reaction. The coagulating activity of the venom can be explained by its proteolytic action. In optimum alkaline medium at 37°C, *V. ammodytes* venom destroys the antihemophilic component-accelerin while very high concentrations of this venom form softer clots probably due to its breakdown by proteinases. Antisera prepared from central asiatic snakes had mainly anti-coagulase properties. Until recently, there was no accurate method for evaluating coagulase activity of venoms and anti-coagulase activity of sera and hence no accurate way of determining the antienzyme activities of antibodies. The new method, employing statistical analysis of data for estimating snake venom coagulase and anticoagulase activity in horse sera, is accurate enough to be used for antibody determination during the preparation of snake bite vaccines. In laboratory experiments, *Vipera lebetina* venom coagulated citrated plasma and its action was independent of the calcium content at its optimum pH of 5.5—6.0, but was inhibited by borate ions. Coagulase and anticoagulase fractions of the venom were separated by electrophoresis. Coagulase inhibition by homologous antisera was studied and antipoison effect increased with the purity of the antipoison serum. [WA-50; CBE No. 12]

SUB CODE: 06/ SUBM DATE: 18Jan65/ ORIG REF: 009/ OTH REF: 010/

Card 2/2

L 08975-67

ACC NR: AP6022053

SOURCE CODE: UR/0146/66/009/003/0033/0037

28

AUTHOR: Roytman, M. S.

ORG: Tomsk Order of the Red Banner of Labor Polytechnic Institute (Tomskiy
politekhnicheskiy institut)

TITLE: Precision differential indicator of effective values of voltages

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 3, 1966, 33-37

TOPIC TAGS: measuring instrument, electric measuring instrument, differential
indicator, comparator, circuit design

ABSTRACT: Errors of differential indicators due to harmonics in the test
voltages are analyzed. Indicator's based on low-power incandescent lamps and
photoresistors have proven to be most sensitive; after 300 hrs of operation
(aging), such indicators become highly stable. However, such indicators have a
relatively large power consumption. The article suggests the use of high-stability

Card 1/2

UDC: 621.317.326

L 08975-67

ACC NR: AP6022053

amplifiers at the indicator input. The best Soviet lamps and photoresistors permit designing differential comparators with a resolution of 0.005% or better. A principal circuit of an electron-tube comparator designed along the above lines is explained. Orig. art. has: 2 figures and 4 formulas.

SUB CODE: 09 / SUBM DATE: 19Mar65 / ORIG REF: 005

ACC NR: AP7002177

SOURCE CODE: UR/0146/66/009/006/0059/0063

AUTHOR: Roytman, M. S.; Tsimbalist, E. I.; Lysov, A. I.

ORG: Tomsk Polytechnic Institute (Tomskiy politekhnicheskiy institut)

TITLE: Photoelectric converter as a control element for electrical circuits

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 6, 1966, 59-63

TOPIC TAGS: photoelectric method, electric device, control circuit

ABSTRACT: The characteristics of a photoelectric converter designed for use in control and measuring circuits are described. The four-terminal converter consists of an SF2-2 photoresistor (output terminal pair) enclosed in a capsule together with an NSM-type low-voltage incandescent lamp which operates at either 6v, 20 mamp, or 9v, 60 mamp (input terminal pair). The converter is characterized by a slight temperature dependence, absence of galvanic coupling between the controlling and the controlled loop, a relatively low time constant, and a high linearity. Some characteristics of the converter are: input impedance, 200—400 and 80 — 170 ohm for 6.3-v, 20-mamp and 9-v, 60-mamp NSM lamps; maximum transfer factor, about 10; temperature instability at an ambient temperature of 1000K is \leq 0.15%, average photo-emf, 2 μ v (for photoresistors illuminated with 9-v, 60-mamp lamps); maximum input power, 20—40 mw. Orig. art. has:

2 figures and 2 formulas. SUB CODE: 09/ SUBM DATE: 10Mar66/ ORIG REF: 005

UDC: 681.2.083.8 ATD PRESS: 5111

Card - 1/1

ROYTMAN, M.S.

Separate and independent balancing of a.c. bridges. Izv.
TPI 105:190-192 '60. (MIRA 16:8)

(Bridge circuits)

ROYTMAN, M.S.

Overload protection of electric measuring instruments by semi-conductor rectifiers. Izv. TPI 105:193-197 '60. (MIRA 16:8)

1. Predstavлено научным семинаром радиотехнического факультета Томского ордена Трудового Красного Знамени политехнического института имени Кирова.

(Electric instruments)

(Electric current rectifiers)

ROYTMAN, Miron Yakovlevich; PCHELINTSEV, V.A., red.; BUTT, V.P., red.
Izd-va; LELYUKHIN, A.A., tekhn. red.

[Fire-prevention measures in building] Pozharnaya profilaktika
v stroitel'nom dele. Izd.2., perer. Moskva, Izd-vo M-va kommun.
khoz. RSFSR, 1961. 367 p. (MIRA 15:2)
(Fire prevention) (Building, Fireproof)

GRIGORYAN, Grigorij Makarovich, prof., doktor tekhn. nauk; YEGOROV,
Valerian Nikolayevich, dots., kand. tekhn.nauk;
KALASHNIKOV, Konstantin Artamonovich, inzh.-polk.;
KOROL'KOVA, Vera Ivanovna, kand. tekhn. nauk; POLOZKOV,
Vladimir Tikhonovich, dots., kand. tekhn. nauk;
SARKIS'YANTS, Gayk Arkad'yevich, prof. Prinimal uchastiye,
SMIRNOV, V.M., inzh.-podpolk.; KUSHELEV, Vladimir Pavlovich,
red.; ROYTMAN, Miron Yakovlevich, red.; YEFREMOVA, T.D., ved.
red.; KLEYMENOVA, K.F., ved. red.; VOROB'YEVA, L.V., tekhn.red.

[Fundamentals of safety engineering and fire prevention in the
petroleum and gas industries] Osnovy tekhniki bezopasnosti i
protivopozharnoi tekhniki v neftianoi i gazovoi promyshlennosti. [By] G.M.Grigrorian i dr. Moskva, Gos. nauchno-tekhn.
izd-vo neft. i gorno-toplivnoi lit-ry, 1962. 222 p.

(MIRA 15:2)

(Gas industry--Fires and fire prevention)
(Petroleum industry--Fires and fire prevention)
(Industrial hygiene)

ROYTMAN, K., inzh.

Considering fire prevention measures in designing and building
boarding schools. Pozh.delo 3 no.10:5 O '57. (MIRA 10:11)
(Boarding schools--Fires and fire prevention)

KALASHNIKOV, Konstantin Artamonovich; ROYTMAN, K.Ya., red.;
FONBERSHTEYN, A.D., red.izd-va; SHLIKHT, A.A., tekhn.red.

[Fireproofing of building materials] Zashchita stroitel'nykh
materialov ot vozgoraniia. Moskva, Izd-vo M-va kommun.khoz.
RSFSR, 1958. 40 p. (MIRA 12:6)
(Building, Fireproof)

L 18377-65 Pa-4 AMD
ACCESSION NR: AP5003111

S/0063/64/009/003/03 9/0324

AUTHOR: Kaner, B. L.; Roytman, K. Ya.

6

TITLE: Problems of safety in placing equipment in outdoor installations
SOURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnal, v. 9, no. 3, 1964, 319-324
TOPIC TAGS: sanitation, industrial plant, safety engineering, general construction

Abstract: Fire protection and techniques of safety and industrial sanitation in the design, construction, and operation of exterior type installations are discussed. These problems are pressing because new projects for producing synthetic rubber, etc., practically all specify outdoor equipment with the exception of compressors. The production areas of these plants will consist almost entirely of several exterior installations and small buildings for automatic control and auxiliary production. The danger of fire spreading in exposed installations stems chiefly from such equipment as settling tanks, condensate receivers and storage tanks. The efforts of some designers and plant workers to keep a hand large stocks of the starting materials results from underestimating the fire hazard of compressed gases and readily flammable liquids.

ASSOCIATION: none

ENCL: 00

SUB CODE: GO

SUBMITTED: 00

OTHER: 000

JPRS

NO REF SOV: 000

Card 1/1

MAKSIMOV, Vladimir Fedorovich, dotsent, kandidat tekhnicheskikh nauk;
ROYTMAN, K.Ya., retsenzent; SHISHOV, I.A., retsenzent; ROMANENKO,
V.A., retsenznet; MALYSHEV, K.N., redaktor; ARKHIPOV, K.N.,
redaktor; SARMATSKAYA, G.I., redaktor izdatel'stva; SHITS, V.P.,
tekhnicheskiy redaktor

[Safety engineering and fire prevention in the paper industry]
Tekhnika bezopasnosti i protivopozharnaya tekhnika v tselliulozno-
bumazhnom proizvodstve. Moskva, Goslesbumizdat, 1956. 242 p.
(MLRA 10:2)

(Factories--Fires and fire prevention)
(Paper industry--Safety measures)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7

ROYTMAN, Leila; BERENBAUM, I. S. (Odessa)

Manufacture of clothing from "perlon" leather substitute.
Sverdlovsk, 7.C.4814-21 JI-Ag 16/.

MIRA 17:10)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7"

SHIRYAYEV, A.F., inzh., red.; ROYTMAN, L.Kh., inzh., red.; DUGINA, N.A.,
tekhn. red.

[Progressive heat treating techniques] Peredovaia tekhnologija
termicheskoi obrabotki. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1961. 143 p. (MIRA 15:3)

1. Uralvagonzavod, Nizhniy Tagil.
(Steel--Heat treatment)
(Furnaces, Heat-treating)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7

ROYTHAM, L.M.

Tensiometers. Izm.tekh. no.5:22-24 S-0 '57. (MLRA 10:9)
(Manometer) (Pressure gauges)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7"

AUTHOR:

Roytman, L.M.

119-2-11/13

TITLE:

New Types of Rotameters for the Recording and Control of the Consumption of Liquids and Gases (Novyye tipy rotametrov dlya registratsii i regulirovaniya raskhodov zhidkostey i gazov).

PERIODICAL:

Priborostroyeniye, 1958, Nr 2, pp. 28-31 (USSR)

ABSTRACT:

A report is given on the following rotameters (the characteristics are given in tables):

a) Rotameter for low pressure: РПП-2, РС-3A, РС-3, РС-5, РС-7.

b) Electronic rotameters:

РЭД-3М

РЭД-А7

РЭД-А3

РЭД-С7

РЭД-7М

РЭД-С9

c) Rotameters: РПИ-6

РПИ-25

РПИ-32

When selecting the various rotameters it is necessary, according to the purpose for which they are intended to be used, to take account of the following points:

Card 1/2

New Types of Rotameters for the Recording and Control
of the Consumption of Liquids and Gases

119-2-11/13

- 1.) Static pressure,
- 2.) Temperature and aggression capability of the medium to be measured,
- 3.) Is a long-distance transmission and automatic control necessary?
- 4.) What degree of measuring accuracy is required ?
- 5.) What is the permissible drop in pressure ?

There are 5 figures and 4 tables.

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Card 2/2

1. Rotameters-Operation
2. Rotameters-Applications
3. Fluid flow-Measurement
4. Fluid flow-Controls

AUTHOR:

Koystman, L.M.

28-6-25/40

TITLE:

Suggestions for Standardization of Rotameters (Predlozheniya po standartizatsii rotametrov)

PERIODICAL:

Standartizatsiya, 1957: # 6, pp 66 - 67 (USSR)

ABSTRACT:

There are more than 20 types and more than 100 modifications of liquid meters (rotameters) for measuring consumption of up to 300,000 liters per hour (water) under pressures up to 300 kg/cm² at temperatures up to 300°C. Yet there is no standard for such liquid meters. The author suggests a subdivided system and the creation of a separate standard for each category of these meters.

AVAILABLE:

Library of Congress

Card 1/1

1. Industry-USSR 2. Rotameters-Standards

ROYTMAN, L.M., inzh. . ,

Gland packing with polyfluoroethylene rings. Vest. mash. 39 no.2:37
(MIRA 12:3)
F '59.

(Packing (Mechanical engineering))

ROYTMAN, L.M.

New types of rotary meters used in measuring and regulating the
flow of liquids and gases. Proborostroenie no.2:28-31 F '58.
(MIRA 11:2)

(Flowmeters) (Electronic instruments)

AUTHOR:

Roytman, L. M.

119-3-11/14

TITLE:

Improvement of a Lever Transmission Mechanism for Mechanical Devices
(Usovershenstvovanny rychazhnyy umnozhitel'nyy mekhanizm dlya
mekhanicheskikh priborov)

PERIODICAL:

Priborostroyeniye, 1958, Nr 3, pp. 28-29 (USSR).

ABSTRACT:

Lever - transmission - mechanism are used with mechanical devices in order to increase the small movements of elastic elements. The difficulty in the case of the hitherto used transmissions was that the recoil always showed differences with the indication proper.

A new lever mechanism without this inaccuracy was constructed by the Engineering Department for Automation in Oil Industry. The important details and data of measurement are given on a diagram.

There are 3 figures, and 0 references.

AVAILABLE:

Library of Congress.

Card 1/1

1. Mechanisms--Applications 2. Transmissions--Revision

SOV/122-59-2-12/34

AUTHOR: Roitman, L.M., EngineerTITLE: Gland Packing with P.T.F.E. Rings (Sal'nikovyye
uplotneniya s kofitsami iz fteroplasta)PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr. 2, p. 37 (USSR)

ABSTRACT: The use of P.T.F.E. packing rings instead of conventional packings is possible within temperatures ranging from -195 to +250°C. The self-lubricating properties of this material gives coefficients of friction as low as 0.07 to 0.08 without lubrication. A sketch shows standard proportions for "chevron" type packing rings recommended by the Oil Industry Design Bureau. The pressure of the spring loading the chevron rings is determined by the formula $P = 0.13d^2n$ where d is the diameter of the spindle or rod and n is the number of chevron rings. A table is given for the recommended number of packing rings and spring pressure for various rod diameters and gland working pressures. There is 1 figure and 1 table.

Card 1/1

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7

ROYTMAN, L.M., inzh.

Sectional dies for cold upsetting. Vest. mash. 38 no. 4:34-35 Ap '58.
(Dies (Metalworking)) (MIRA 11:3)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7"

ROYTMAN, L.M.

AUTHOR: Roytman, L.M., Engineer.

122-1-8/34

TITLE: Electro-plated coatings. Designer's and production engineer's reference sheets. (Gal'vanicheskiye pokrytiya. Listki dlya konstruktora k tekhnologii)

PERIODICAL: "Vestnik Mashinostroyeniya" (Engineering Journal), 1957, No.1, pp. 31 - 34 (U.S.S.R.)

ABSTRACT: Information based in part on the standard specifications ГОСТ 2249-43 and ГОСТ 3002-45 is reviewed. The common coatings used in engineering are listed with their main properties and fields of application. Particular attention is given to fits and allowances in connection with coating thicknesses.

Card 1/1 There are 2 figures and 6 tables.

AVAILABLE: Library of Congress

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7

ROYTMAN, L.M.

Improved lever amplifying mechanism used in mechanical instruments.
Priborostroenie no.3:28-29 Mr '58. (MIRA 11:4)
(Measuring instruments)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001445520012-7"

ROYTMAN, L. M.

3
1-124
✓ 2051. MEASUREMENT AND REGULATION OF SMALL FLOWS OF LIQUIDS AND GASES WITH ROTAMETERS WITH MAGNETIC TRANSMISSION. Belozarski, S. S. and Roytman, L. M. (Fizikorostroenie (Instrum. Making, U.S.S.R.), 1955, (12), 9-11; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1957, (12), 43500). A rotameter designed for the oil industry, with a magnetic following system and pneumatic transmission, is described.

SPD

ROYTMAN, L.M.

ROYTMAN, L.M., inzh.

Suggested standards for flowrators. Standartizatsiia no.6:66-67
N-D '57.

(MIRA 10:12)

(Flowmeters--Standards)

AUTHOR: Roytman, L.M. 115-5-11/44

TITLE: Tension Manometers (Tenzomanometry)

PERIODICAL: "Izmeritel'naya Tekhnika", No 5, Sep-Oct 1957, pp 22-24 (USSR)

ABSTRACT: The Designing Bureau for Automation of Oil Refineries has developed tension manometers ("tensomanometr") and differential tension manometers ("tensodifmanometr") provided with wire resistance-indicators, for measuring and controlling pressures in various technological devices. The article gives a detailed description of the design of tension manometers for 100, 300, and 700 kg/cm², comprising different numbers of wire indicators (for various degrees of accuracy), and differential manometers for the same range of static pressures and pressure drops of 5-20-40-80 kg/cm². General principles of designing and choosing materials for resilient instrument parts for work in corrosive medium and under varying load are discussed. Welding of these instruments is not recommended as well as galvanizing with copper, nickel and chromium, as such coating reduces corrosion-fatigue resistance. Steel grades suitable for work conditions concerned are recommended. The article contains 3 drawings and 1 diagram.

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ROYTMAN, L.M., inzhener.

Elektroplating. Vest.mash.37 no.1:31-34 Ja '57.
(Electroplating)

(MLRA 10:2)

BELOZERSKIY, S.S., ROYTMAN, L.M.

Using rotometers with magnetic transmissions for measuring and
regulating minor consumption of fluids and gases. Priborostroe-
nie no.12:9-11 D '56. (MIRA 10:1)
(Flowmeters) (Magnetic instruments)

ROYTMAN, M., kand.tekhn.nauk, dots.

Specific heat of fires and fire load. Pozh.delo 6 no.12:8 D 160.
(MIRA 13:12)

(Building, Fireproof)

ROYTMAN, M., kand.tekhn.nauk; ZENKOV, N., inzh.

Testing of silica bricks. Pozh.delo 5 no.12:14-15 D '59.
(MIRA 13:4)
(Bricks--Testing)

ROYTMAN, M.Ya.; TURKOV, A.S.; SKITEV, N.T.; PIVOVAROV, A.S.

Some problems of fire prevention in the enterprises of chemical
industries. Pozh. bezop. no.4:4-23 '65. (MIRA 19:1)

ACC NR: AP6032115

SOURCE CODE: UR/0301/66/012/005/0477/0483

AUTHOR: Roytman, M. I.

ORG: Tashkent Scientific Research Institute for Vaccine and Sera, Ministry of Health
SSSR (Tashkentskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok Ministerstva
zdravookhraneniya SSSR)

TITLE: The blood coagulation activity of *Vipera Lebetina Turanica* venom and its
neutralization by specific antiserum

SOURCE: Voprosy meditsinskoy khimii, v. 12, no. 5, 1966, 477-483

TOPIC TAGS: ~~medicine~~, medical research, snake venom, coagulant, antihemorrhagic,
~~snake~~, ~~anticoagulant~~, ~~protein effector~~, coagulation, enzyme, antibody, vaccine

ABSTRACT: A new method of evaluating snake venom coagulase activity is
presented. The hemocoagulation activity of snake venom is an
important factor in the pathogenesis of snake bite injuries,
acting within an hour after the bite, and can be counteracted
by preliminary doses of heparin. The venom of *vipera Lebetina*
is a very powerful hemoagulant and is used as a thrombo-
plastin substitute in the clinical determination of prothrombin
time and as an antihemorrhagic. It has much in common with the
proteolytic enzyme papain hastening the formation of fibrin

Card 1/2

UDC: 615.94:598.126-017.715+615.373.39:598.126

ACC NR: AP6032115

from fibrinogen and trypsin which catalyzes the prothrombin-thrombin reaction. The coagulating activity of the venom can be explained by its proteolytic action. In optimum alkaline medium at 37°C, *V. ammodytes* venom destroys the antihemophilic component-accelerin while very high concentrations of this venom form softer clots probably due to its breakdown by proteinases. Antisera prepared from central asiatic snakes had mainly anti-coagulase properties. Until recently, there was no accurate method for evaluating coagulase activity of venoms and anti-coagulase activity of sera and hence no accurate way of determining the antienzyme activities of antibodies. The new method, employing statistical analysis of data for estimating snake venom coagulase and anticoagulase activity in horse sera, is accurate enough to be used for antibody determination during the preparation of snake bite vaccines. In laboratory experiments, *Vipera lebetina* venom coagulated citrated plasma and its action was independent of the calcium content at its optimum pH of 5.5—6.0, but was inhibited by borate ions. Coagulase and anticoagulase fractions of the venom were separated by electrophoresis. Coagulase inhibition by homologous antisera was studied and antipoison effect increased with the purity of the antipoison serum.

[WA-50; CBE No. 12]

SUB CODE: 06/ SUBM DATE: 10-30-65/ ORIG REP: 000/ ORIG RPT: 010/
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ROYTMAN, M.I.

Prophylactic properties of antivenom sera in respect to the venoms
of snakes of Central Asia. Zhur. mikrobiol., epid. i imun. 42
no.11:108-111 N '65. (MIRA 18:12)

1. Tashkentskiy institut vaktsin i syvorotok. Submitted Nov. 16,
1964.

ROYTMAN, M.P. (Moskva)

Fortieth anniversary of the establishment of night sanatoria in
the U.S.S.R. Sov. zdrav. 21 no.1:52-56 '62; (MIRA 15:2)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny
imeni N.A.Semashko. (HOSPITALS--OUTPATIENT SERVICES)

L 41796-65 EWT(1)/ED-2/EWA(h) Pm-4/Peb
ACCESSION NR: AR4039100

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22

B

SOURCE: Ref. zh. Radiotekhnika i elektronika i elektrosvyaz', Abs. 3A91

AUTHOR: Olomutskiy, L. P. ; Roytman, M. S.

TITLE: Reducing the phase shift of a phase-detector transformer

CITED SOURCE: Izv. Tomskogo politekhn. in-ta, v. 116, 1962, 27-29

TOPIC TAGS: phase detector, lf transformer

TRANSLATION: L-f transformers are nonlinear elements because their primary inductance and loss resistance depend on the supply voltage. The transformer phase shift also varies with the voltage which is inadmissible in many cases. The transformer nonlinearity results in a dynamic (relative) phase shift which depends on the transformer input voltage. It is shown that the relative phase shift can be reduced either by a reasonable choice of transformer parameters or by introduction of a negative feedback. Effect of the transformer input voltage on the relative phase shift was determined with and without a series voltage feedback $1 + K_f = 10$. The curves show that good results can be obtained from a slight complication of the

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circuit. Simultaneously the zero-point shift of the synchronous detector diminishes thanks to the reduction of the internal impedance of the source. Two illustrations.
Bibliography: 1 title.

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L 59557-65 EMT(1)/EWA(h) Pn-l/Peb		
ACCESSION NR: AP5013851	UR/0103/65/026/005/0934/0937 621.376.93	12 B
AUTHOR: Roytman, M. S. (Tomsk)		25
TITLE: Adjustable-selectivity junction-transistor synchronous detector		
SOURCE: Avtomatika i telemekhanika, v. 26, no. 5, 1965, 934-937		
TOPIC TAGS: synchronous detector, selective synchronous detector		
ABSTRACT: To eliminate an odd harmonic, a voltage-wave shaper inserted into the detector voltage-switching circuit is proposed. The sinusoidal switching voltage is applied to transformer 1, see Fig. 1 of the Enclosure. The voltage from one of its secondaries is rectified, filtered, and used as bias for transistors T ₁ and T ₂ . As both switching and bias voltages are supplied by the same source, the turn-on and turn-off angles can be positively controlled. The relative instability of the rectified voltage is 0.5% or less at a turn-on angle of 30°. However, the above circuit has an intrinsically lower noise immunity. A two-switching-transformer circuit is suggested to improve this characteristic. Orig. art. has: 6 figures and 3 formulas.		
ASSOCIATION: none	ENCL: 01	SUB CODE: EC
SUBMITTED: 08Jul64 Card 1/2	NO REF Sov: 002	OTHER: 001