ACCESSION NR: AT4007035

ture of iodine and most plant extracts, the corrosion resistance of Ti alloys other than VT-1 was 10-15 times as high as that of tinned Cu. In tannic or gallic acid, the AT alloys were 90 times as resistant as alloy VT-1, 220 times as resistant as stainless steel and 300 times as resistant as tinned Cu. Analysis of the solution after exposure of the OT alloys to tannic acid revealed leaching out of Mn and Fe. These findings were confirmed by kinetic studies in aqueous tannic acid and tincture of Convalaria maialis, which showed that the corrosion rate of stainless steel, Ni, Cu and tinned Cu increased rapidly with time, while that of the AT alloys remained quite low. Orig. art. has: 4 figures.

ASSOCIATION: Institut metallurgii AN SSSR (Metallurgical Institute, AN SSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, LS

NO REF SOV: 000

OTHER: 000

ard 2/2

ACCESSION NR: AT4007038

\$/2598/63/000/010/0176/0178

AUTHOR: Tavadze, F. N.; Mandzhgaladze, S. N.; Dashniani, T. S.; Lordkipanidze, I. N.; Tavadze, L. F.

TITLE: Electrochemical and corrosion behavior of alloys of the titanium aluminum system

SOURCE: AN SSSR. Institut metallurgii. Titan i yego splavy*, no. 10, 1963. Issiedovaniya titanovy*kh splavov, 176-178

TOPIC TAGS: titanium aluminum alloy, titanium aluminum alloy corrosion, titanium alloy corrosion, titanium aluminum system, titanium alloy, Ti sub 3 Al, Ti sub 2 Al, titanium alloy electrochemical property

ABSTRACT: In order to correct certain deficiences and contradictions in the literature, the authors studied the corrosion resistance and electrochemical potential of 19 Ti-Al alloys with Al contents of 0.5-38.5% by weight. Alloy specimens were heated to 900C for 100 hrs., then at 800C for 200 hrs. and 700C for 100 hrs. before cooling to room temperature and exposure to 40% H₂SO₄, 60% HCl, 5% HNO₃ or 0.5N NaCl. Corrosion was measured by volumetric or gravimetric methods. As shown by Fig. 1 in the Enclosure, these alloys are generally corrosion resistant, especially, in HNO₃, in which there is a single corrosion maximum at an Al concentration of 6-7%. In KCard 1/3

ACCESSION NR: AT4007038

H2SO4 and HCl, there are two corrosion maxima, one at 6-8% Al and a much broader maximum at 25-26% Al. The electrochemical potential in NaCl showed a similar behavior, with positive maxima at the same Al contents. In an alloy with 1% Al, the potential became generally more negative with time, while with 7% Al, the potential increased with time, becoming positive in about 6 minutes. These variations in the corrosion resistance of Ti-Al alloys indicate the existence of phases which act as cathodes with respect to the solid solution of Al in α -Ti. Orig. art. has: 3 figures.

ASSOCIATION: Institut metallurgii AN SSSR (Metallurgical Institute, AN SSSR)

SUBMITTED: 00

DATE ACQ: 27Dec63

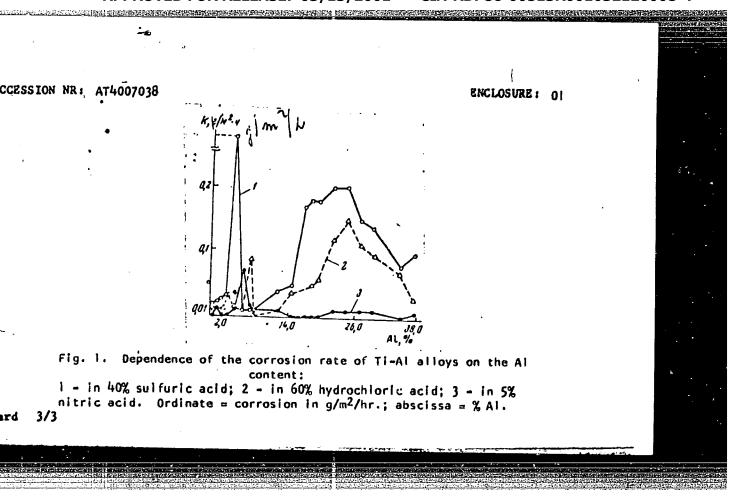
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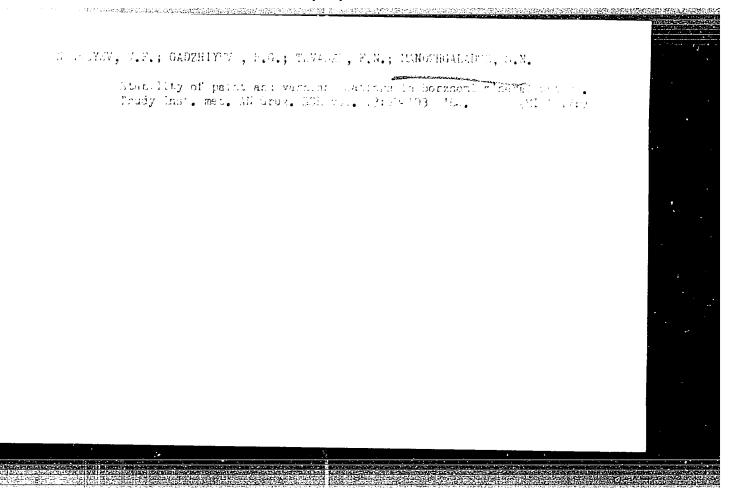
SUB CODE: MM

NO REF SOV: 001

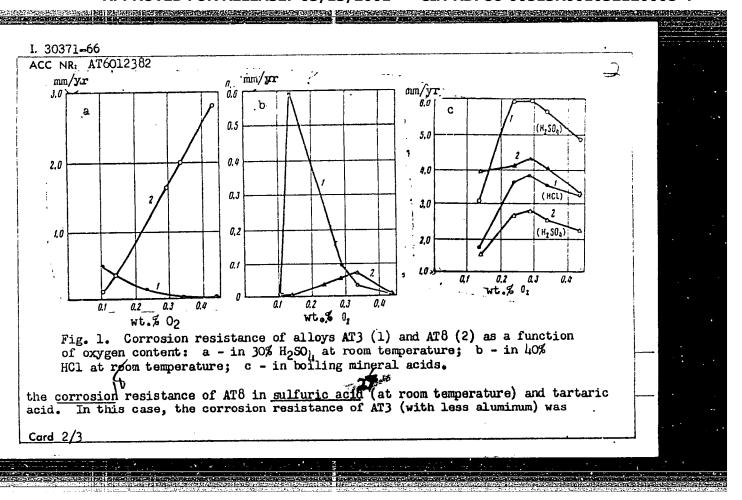
OTHER: 002

Card 2/3





L 30371-66 EWT(m)/T/EWP(t)/ETI LJP(c) JH/JD/WB/GD	
ACC NR: AT6012382 SOURCE CODE: UR/0000/65/000/000/0138/0142	
AUTHORS: Tavadze, F. N.; Mandzhgaladze, S. N.; Vul'f, B. K.; Yudina, S. A.; Dashniani, T. S. ORG: Mandzhgaladze, S. N.; Vul'f, B. K.; Yudina, S. A.; 59 B+1	
TITLE: The effect of oxygen content and heat treatment on the corrosion resistance of AT3 and AT8 titanium alloys SOURCE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana i yego	
splavov, 6th. Novyye issledovaniya titanovykh splavov (New research on titanium alloys); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 138-142	
OYYGEN, ALUMINUM CONTAINING ALLOY, TOPIC TAGS: titanium alloy, corrosion resistance, corrosion resistant alloy, hydrochloric acid, nitric acid, sulfuric acid / AT3 titanium alloy, AT8 titanium alloy	
ABSTRACT: The dependence of the corrosion resistance of titanium alloys with both small and considerable contents of aluminum/upon their oxygen content is studied. The range of oxygen content was from 0.1 to 0.43%. The alloys were studied in the initial state and after normal heat treatment. The corrosive media were 5% HNO ₃ , 30% H ₂ SO ₁ , 40% HCl, solutions of tannic, gallic, and tartaric acids, 5% solutions of NaCl and NaOH, and a humid subtropical atmosphere. In all but the HCl, H ₂ SO ₁ , and tartaric acid, the corrosion resistance of the alloys was almost independent of the oxygen content (see Fig. 1). An increase in the oxygen content considerably worsened Card 1/3	
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ACC NR: AT6012362

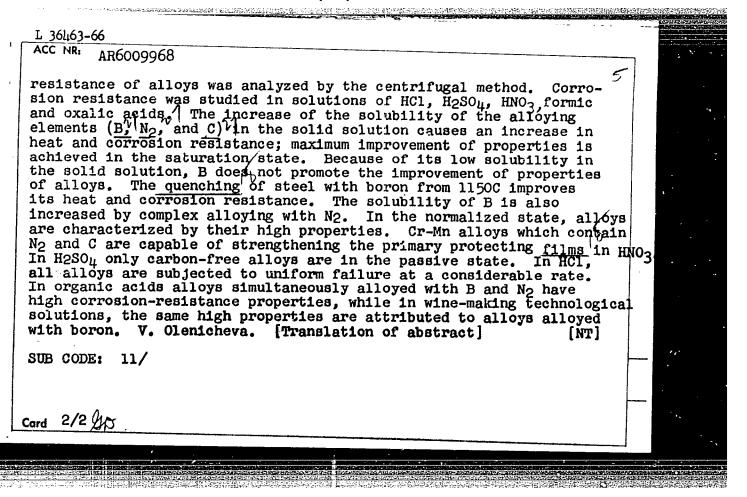
improved. Aging of AT3 and AT8 after hardening caused a considerable decrease in corrosion resistance. Regardless of the oxygen content and the conditions of heat treatment, the nature of corrosion of the alloy is uniform. Orig. art. has:

SUB CODE: 11/ SUBM DATE: O2Dec65/ ORIG REF: 007

Card 3/3 (10

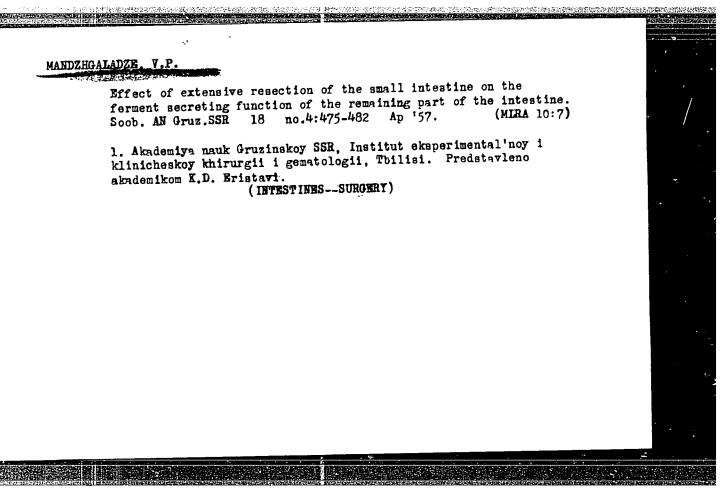
L 36463-66 EWT(m)/T/EWP(e)/EWP(t)/ETI IJP(c) JD/WB ACC NRI UR/0137/65/000/012/1058/1058 AR6009968 SOURCE CODE: Tavadze, F. N.; Tskitishvili, M. D.; Mandzhgaladze, S. N.; AUTHOR: Lashkhi, T. 46 ORG: none B TITLE: Effect of small boron additions on the heat and corrosion resistance of multicomponent chromium-manganese alloys SOURCE: Ref. zh. Metallurgiya, Abs. 12I437 Tr. Gruz. in-t metallurgii, v. 14, 1965, 109-122 REF SOURCE: TOPIC TAGS: boron, austenite, chromium containing alloy, manganese containing alloy, metal hardening, heat resistance, corrosion resistance, solubility ABSTRACT: (A study was made of the relationship between heat and corrosion resistance and structure of austentic Cr-Mn alloys in solid solution (low-alloyed with boron, nitrogen and carbon) composed (in %) of Cr, 15.0; Mn, 15.0; W, 0.5; Mo, 0.5; Nb~0.5. The heat <u>Card</u> 1/2 UDC: 669.15.018.8:620.193

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MANDZHGALADZE, V. P. Cand Biol Sci -- (diss) "On the problem of the effect of extensive resection of the small intestine upon the enzyme-secretory function of its remaining part. (Experimental study)." Tbilisi, 1957. 17 pp (Tbilisi State Univ im I. V. Stalin), 100 copies (KL, 3-58, 96)

-19-



ACCESSION NR: AP4031762

S/0251/64/033/003/0549/0556

AUTHORS: Tumanishvili, G. D.; Mandzhgaladze, V. P.; Dzhanelidze, Kh. N.

TITLE: Effect of ionizing radiation on the stimulating properties of tissue extracts (Presented by Academician E. L. Andronikashvili on 2 September 1963)

SOURCE: AN GruzSSR. Soobshcheniya, v. 33, no. 3, 1964, 549-556

TOPIC TAGS: frog liver extract, chicken liver extract, irradiated liver extract, nucleic acid synthesis, DNA liver synthesis, RNA liver synthesis, x ray apparatus RUP 200

ABSTRACT: Experiments were conducted on frogs (Rana ridibunda) injected intraperitoneally with 0.4 ml of chicken liver and frog liver extracts irradiated with a 1000 r dose by means of the x-ray apparatus RUP-200. The injections were administered immediately after surgical removal of a section of the liver. The amount of nucleic acid (DNA and RNA) was determined within 12-96 hours after perfusion of the frogs with 0.14 molar NaCl. The obtained values (divided by the number of nucleic counted under a microscope) were used to gauge the dynamics of stimulation. The details of the technique are given in an earlier paper by C. D.

Card 1/2

ACCESSION NR: AP4031762

Tumanishvili, V. P. Mandzhgaladze, and G. N. Dzhanelidze (Deystviye ekstraktov pecheni na sintez mukleinovykh kislot v regeneriruyushchey pecheni lyagushki. Biokhimiya, 28, v. 6, 942-950, 1963). It was found that irradiated chicken liver extract had a more pronounced and earlier stimulating effect on the synthesis of nucleic acids than the native extract. Evidence points to the fact that the stimulation by irradiated liver extracts tends to preserve a constant DNA concentration. Orig. art. has: 2 tables and 1 chart.

ASSOCIATION: Academiya Nauk Gruzinskoy SSR, Institut fisiki (Academy of Sciences, Georgian SSR, Institute of Physics)

SUBMITTED: 27Nov63

DATE ACQ: OlMayou

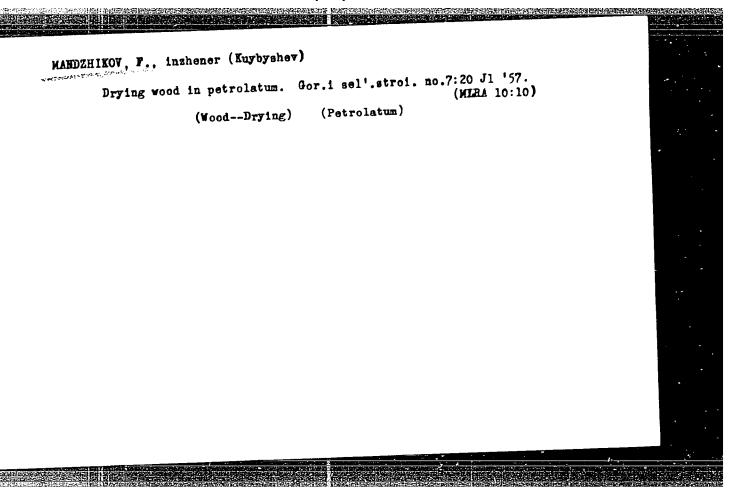
ENCL: 00

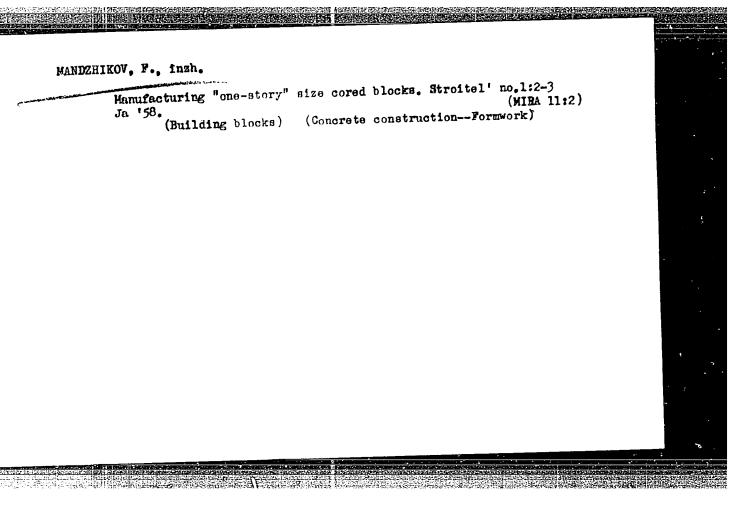
SUB CODE: LS

NO REF SOV: 005

OTHER: OOO

Card 2/2





MANDZHIKOV, F.Ch., iush.

Operation of semi-automatized concrete and mortar plants at industrial construction sites. Makh. stroi. 15 no.1:16-18 Ja '58. (MIRA 11:1) (Concrete plants)

MANDZHIKOV, F., insh.

Heating aggregates in cylindrical drums. Stroitel' no.1:18 Ja '59.

(NIRA 12:3)

1. Nachal'nik prokatnogo otdela tresta Metallurgtrest.

(Concrete) (Drying apparatus)

SOSKIND, A.M., ingh.; MANDZHIKOV, F.Ch., ingh.

Using hot gases in heating aggregates of concrete mixes. Energ. stroi. no.4:78-79 '59. (MIRA 13:8)

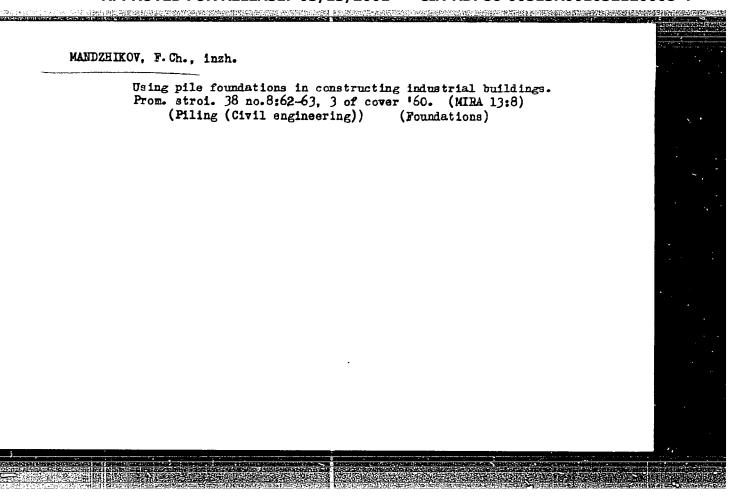
1. Institut "Orgenergostroy". (Aggregates (Building materials))

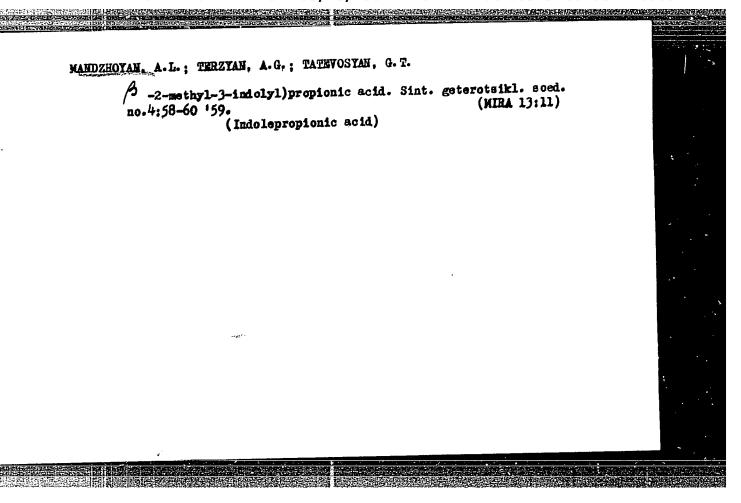
MANDZHIKOV, F.Ch.; SAVINKOV, B.N.; USTINENKO, L.P.

Unit for making one story-high concrete ventilation blocks. Suggested by F.Ch.Mandzhikov, B.N.Savinkov, L.P.Ustinenko. Rats.i izobr.predl. v stroi. no.10:32-36 159.

(MIRA 12:11)

1. Fo materialam tresta Metallurgstroy Kuybyshevskogo sovnarkhoza. (Concrete slabs)





SOURCE CODE: UR/0056/66/050/001/0062/0068 AUTHOR: Bonchev, Ts.; Aydemirski, P.; Mandzhukov, I.; Nedyalkova, N.; Skorchev, B.; Strigachev, A. Sofia University "Kliment Okhridski" (Sofiyskiy universitet) SOURCE: A study of Brownian motion by means of the Mossbauer effect SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, SOURCE: TAGS: Mossbauer effect, tin, Brownian motion, resonance absorption, viscous Cluid, silicone, glycerin, isotope, gamma quantum ABSTRACT: The authors have investigated the resonance absorption of 7 quanta in Sn119 in Sn02 particles suspended in different liquids. The resonance absorption spectra were obtained with a Mossbauer spectrometer with a moving source having a velocity ranging from 0 to 30 mm/sec. The source was Sn119mO2 kept at room temperature. The absorber temperature ranged from -196 to +250 C. Variation of the viscosity of a glycerin suspension by diluting the latter with water, at constant temperature, increased the line width in accordance with the law formulated by Singwi and Sjolander (Phys. Rev. v. 120, 1093, 1960). The same takes place in a	L 22120-66 EWE(1) IJP(c)		
ORG: Sofia University "Kliment Okhridski" (Sofiyskiy universitet) FITTE: A study of Brownian motion by means of the Mossbauer effect SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, FOPIC TAGS: Mossbauer effect, tin, Brownian motion, resonance absorption, viscous fluid, silicone, glycerin, isotope, gamma quantum ABSTRACT: The authors have investigated the resonance absorption of γ quanta in Sn19 in SnO ₂ particles suspended in different liquids. The resonance absorption spectra were obtained with a Mossbauer spectrometer with a moving source having a velocity ranging from 0 to 30 mm/sec. The source was Sn119mO ₂ kept at room temperature. The absorber temperature ranged from -196 to +250 C. Variation of the viscosity of a glycerin suspension by diluting the latter with water, at constant	<u>하는 사람들은 사람들이 되었다. 그런 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은</u>	SOURCE CODE: UR/0056/66/050/001/0062/0068	- 15 15: 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :
ORG: Sofia University "Kliment Okhridski" (Sofiyskiy universitet) FITTE: A study of Brownian motion by means of the Mossbauer effect SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, FOPIC TAGS: Mossbauer effect, tin, Brownian motion, resonance absorption, viscous fluid, silicone, glycerin, isotope, gamma quantum ABSTRACT: The authors have investigated the resonance absorption of γ quanta in Sn19 in SnO ₂ particles suspended in different liquids. The resonance absorption spectra were obtained with a Mossbauer spectrometer with a moving source having a velocity ranging from 0 to 30 mm/sec. The source was Sn119mO ₂ kept at room temperature. The absorber temperature ranged from -196 to +250 C. Variation of the viscosity of a glycerin suspension by diluting the latter with water, at constant	UTHOR: Bonchey, Ts.: Aydemiral	ki, P.; Mandzhukov, I.; Nedyalkova, N.; Skorchev,	
COURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, 52-68 ROPIC TAGS: Mossbauer effect, tin, Brownian motion, resonance absorption, viscous cluid, silicone, glycerin, isotope, gamma quantum ABSTRACT: The authors have investigated the resonance absorption of γ quanta in snlp in SnO ₂ particles suspended in different liquids. The resonance absorption spectra were obtained with a Mossbauer spectrometer with a moving source having a velocity ranging from 0 to 30 mm/sec. The source was SnllpmO ₂ kept at room temperature. The absorber temperature ranged from -196 to +250 C. Variation of the viscosity of a glycerin suspension by diluting the latter with water, at constant	.; Strigachev, A.	56	
COURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, γ. 50, no. 1, 1966, 52-68 ROPIC TAGS: Mossbauer effect, tin, Brownian motion, resonance absorption, viscous fluid, silicone, glycerin, isotope, gamma quantum ABSTRACT: The authors have investigated the resonance absorption of γ quanta in snl19 in SnO ₂ particles suspended in different liquids. The resonance absorption spectra were obtained with a Mossbauer spectrometer with a moving source having a velocity ranging from 0 to 30 mm/sec. The source was Snl19mO ₂ kept at room temperature. The absorber temperature ranged from -196 to +250 C. Variation of the viscosity of a glycerin suspension by diluting the latter with water, at constant	RG: Sofia University "Kliment	Okhridski" (Sofiyskiy universitet)	r le Le
NOPIC TAGS: Mossbauer effect, tin, Brownian motion, resonance absorption, viscous cluid, silicone, glycerin, isotope, gamma quantum ABSTRACT: The authors have investigated the resonance absorption of γ quanta in snl ¹⁹ in Snl ² particles suspended in different liquids. The resonance absorption spectra were obtained with a Mossbauer spectrometer with a moving source having a velocity ranging from 0 to 30 mm/sec. The source was Snl ^{19m} O ₂ kept at room temperature. The absorber temperature ranged from -196 to +250 C. Variation of the viscosity of a glycerin suspension by diluting the latter with water, at constant	TILE: A study of Brownian mot	ion by means of the Mossbauer effect	
ABSTRACT: The authors have investigated the resonance absorption of γ quanta in \sin^{19} in \sin^{0} particles suspended in different liquids. The resonance absorption spectra were obtained with a Mossbauer spectrometer with a moving source having a velocity ranging from 0 to 30 mm/sec. The source was \sin^{119m} O ₂ kept at room temperature. The absorber temperature ranged from -196 to +250 C. Variation of the viscosity of a glycerin suspension by diluting the latter with water, at constant	2-68	회사들은 회사들이 가장 그렇게 되었다. 그 나는 그는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	
spectra were obtained with a Mossbauer spectrometer with a moving source having a velocity ranging from 0 to 30 mm/sec. The source was Sn ^{119m} O ₂ kept at room temperature. The absorber temperature ranged from -196 to +250 C. Variation of the viscosity of a glycerin suspension by diluting the latter with water, at constant	OPIC TAGS: Mossbauer effect, luid, silicone, glycerin, isot	tin, Brownian motion, resonance absorption, viscous	
viscosity of a glycerin suspension by diluting the latter with water, at constant	ABSTRACT: The authors have invisin 119 in SnO ₂ particles suspend spectra were obtained with a Movelocity ranging from 0 to 30 mm.	estigated the resonance absorption of γ quanta in ed in different liquids. The resonance absorption sabauer spectrometer with a moving source having a m/sec. The source was Sn ^{119m} O ₂ kept at room temture ranged from -196 to +250 C. Variation of the	
	viscosity of a glycerin suspens	ion by diluting the latter with water, at constant	

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ACC NR: AP6004920

suspension in a silicone oil whose viscosity is altered by changing the temperature. The results are analyzed from the point of view of the mechanism whereby the 7 quantum is absorbed by the SnO₂. It is concluded that in suspensions, unlike ordinary liquids, the absorption does not occur spontaneously, nor does it occur within a certain time interval of the order of the half-life of the nuclear level, but it must be assumed that the suspension particles stay in equilibrium during some time. The absorption of the 7 quantum then depends not only on the instantaneous particle velocity but also on the time interval between the jumplike changes of velocity which occur in suspension, which have a statistical nature similar to that of Brownian motion. This feature uncovers interesting possibilities for the investigation of the structure of liquids and of the 7 quantum absorption mechanism. Orig. art. has: 8 figures and 10 formulas.

SUB CODE: 20/ SUBM DATE: 09Aug65/ ORIG REF: 008/ OTH REF: 003

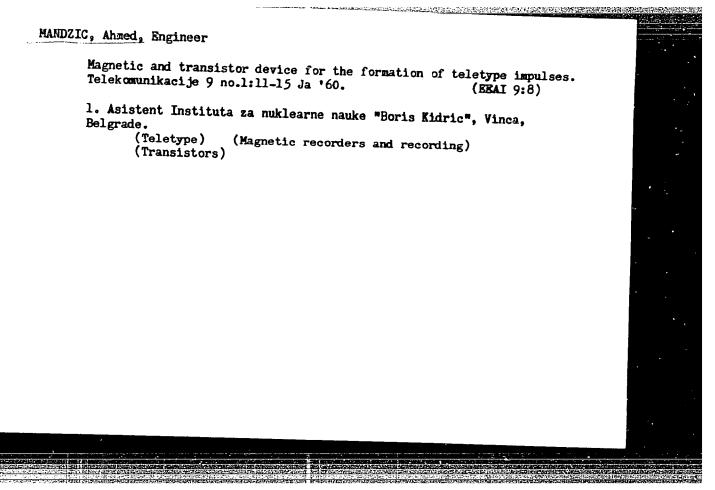
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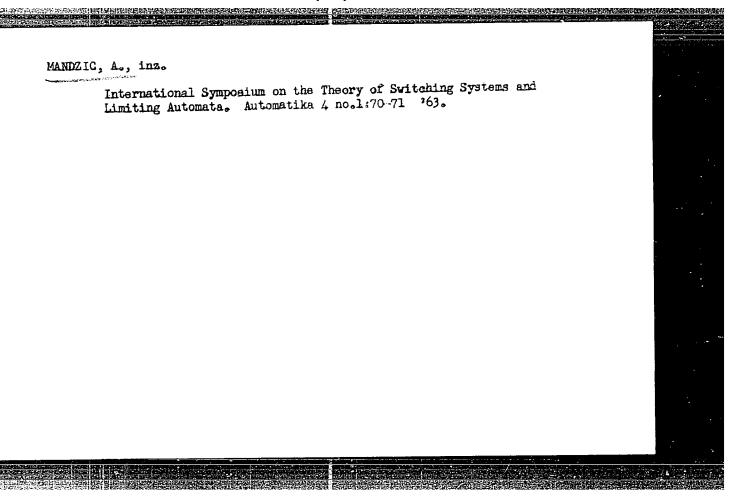
IANEV, Sp., inzh.; GANEV, P., inzh.; MANDZHUKOV, St., inzh.

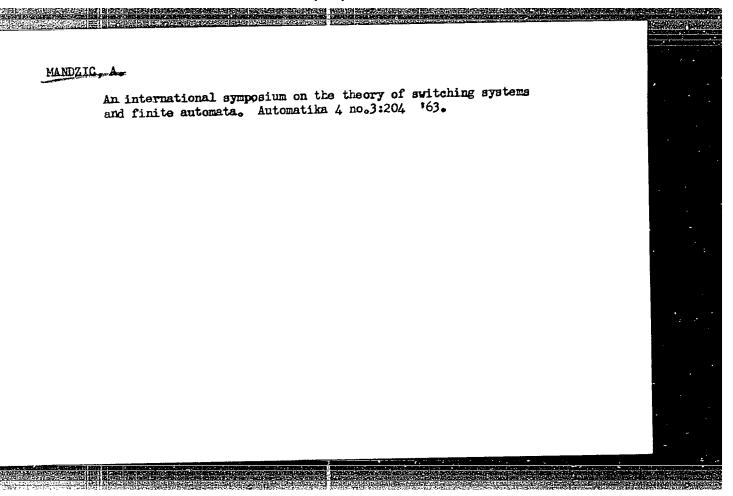
A method of determining friction losses. Mashinostroene 13 no.12: 16-18 D '64.

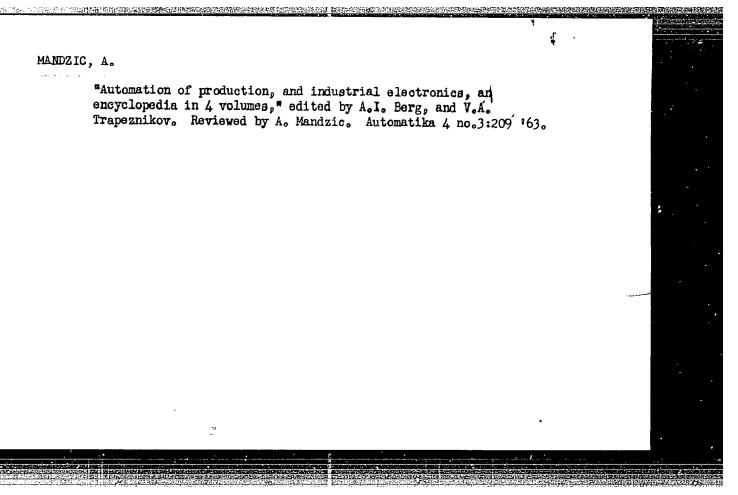
1. Scientific Research Institute for the Design, Development, and Manufacture of Metal-Cutting Machines and Instruments (for IAnev).

2. Machinery and Electrotechnical Institute, Sofia (for Mandzhukov).









MANDZIC, Ahmed, vanredni prof.

Automation in Bosnia and Hercegovina. Automatika 5 no.6:457-458 '64.

1. Dean, Faculty of Electrical Engineering of the University of Sarajevo, Sarajevo.

MANDZIUK, W.

Sanitary protection of wells and water pipes, p. 7. (Budownictwo Wiejskie, Vol. 8, No. 7, July 1956, Marsaw, Poland)

SG: Monthly List of East European Accessions (EFAL) LC, Vol. 6, No. 8, Aug 1952, Uncl.

。 第一章,"大学生,一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就 MANDZIUK WOJCIECH

POLAND / Chemical Technology. Chemical Products H-5 and Their Application. Water treatment. Sewage water

Abs Jour : Ref. Zhur. - Khimiya, No 2, 1958, No 5137

Author : Mandziuk Wojciech

Inst : Not Given

Title : Purification of Sewage Water of Silk Textiles

Manufacture

Orig Pub : Gaz, woda, techn. sanit., 1956, 30, No 8,

303-305

Abstract

: Description of a unit for the purification of sewage water according to the following procedure: coagulation with CaO and FeSO,, settling, treatment in high-load biofilters with recircu-

Card : 1/2

Card : 2/2

METYUSHEV, B.D.; PETROVA, R.S.; MANDZYUK, A.I.

Analytical relations in the system ethanol - isobutyl. Izv.vys. ucheb.zav.; pishch.tekh. no.1:123-127 '64. (MIRA 17:4)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra vysshey matematiki i kafedra brodil'nykh proizvodstv.



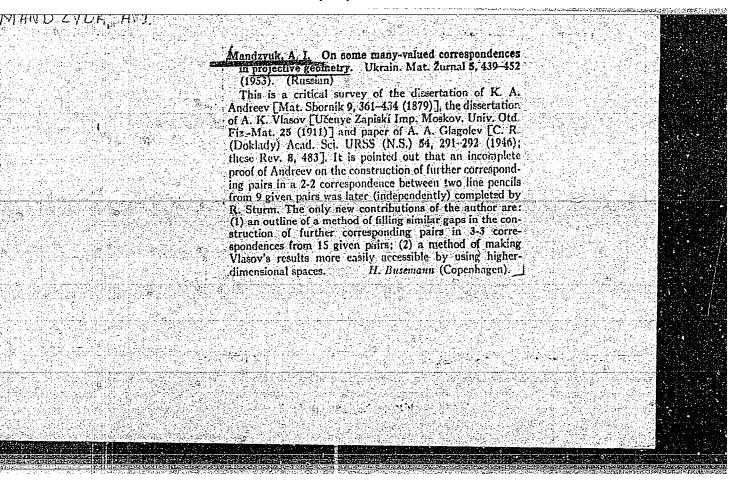
MANUZYUR A. I.

K voprosu o postroyenii nomogramm. M., Trudy zootekhn. in-ta, 4(1936), 121-132. Nomogrammy s nemym binarnym polem. M., Uchen, zap. Un-ta. 28(1939), 71-74. O bobshcheniye teoremy prof. D. D. Mordukhay-Boltovskogo o kuadratichnykh diemetrakh krivoy tret'ego poryaika. M., Trudy zootekhn. in-ta, 4(1936), 133-135. O nekotorykh teoremakh frof. D. D. Mordukhay-Boltovskogo i yaponskogo matematika ogino shazaki. L., Trudy Nauchnotekhn. Konfer. Voyenno-transp. Akad. SB., 2(1938), 61-64. Primeneniye odno-chetyrekhznachnogo sootvetstviya k razresheniyu osnovnoy konstruktivnoy zadachi, otnosyashcheysya k involyutsii tret'ego poryaika vtorogo izmereniya. L., Trudy Nauchno-Tekhn. Konfer. Voyenno-transp. Akad, SB., 2(1938), 67-72.

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SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.,
Markushevich, A. I.
Rashevskiy, P. K.
Moscow-Leningrad, 1948





METYUSHEV, B.D.; MANDZYUK, A.I.; PETROVA, R.S.

Equation for determining the coefficients of evaporation and rectification of isobutyl alcohol. Trudy KTIPP no.27162-75 '63. (MIRA 17:5)

Green fallows in	Stalino Province. Zemledelie 23 no.11:30-33 N (MIRA 14:12)	
1. Stalinskaya oblastnaya gosudarstvennaya sel'skokhozyaystvennaya opytnaya stantsiya. (Donetsk ProvinceFallowing)		u٠.

MANE, M.

Organization of work in burning pastures. p. 25

Vol. 9, no. 5, July 1955 PER BUJQESINE SOCIALISTE Tirane, Albania

SO: East European Accession Vol. 5, No. 4. April 1956

MANEA, A.

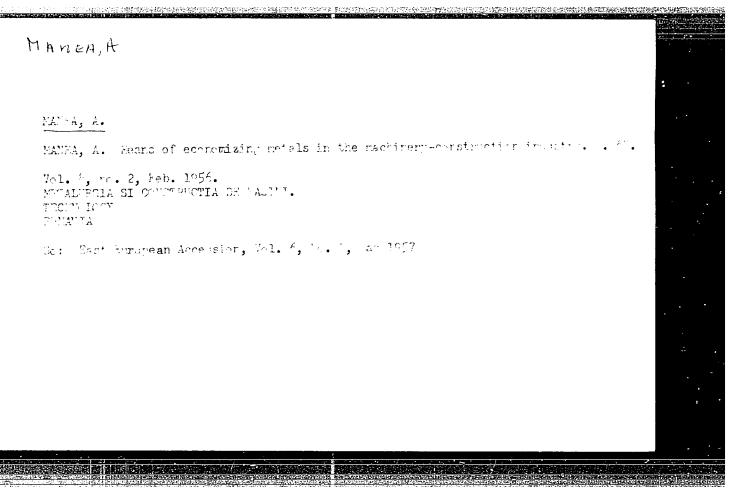
Considerations of problems of technical progress in the machinery manufacturing industry. p. 15.

METALURGIA SI CONSTRUCTIA DE MASINI

Vol. 8, no. 1, Jan. 1956

Rumania

Source: EAST EUROPEAN LISTS Vol. 5, no. 10 Oct. 1956



D.

MANEA, A.

RUMANIA/Cosmochemistry - Geochemistry - Hydrochemistry.

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24603

Author : Nitulescu, f., Manea, A.

Inst :

Title : Structural Connection of Pyrite with Petrographic

Components of Coal in the Jiului Valley.

Orig Pub : Rev. minelor, 1957, 8, No 6, 253-254, 292-297

Abstract : In relation to coal, two varieties of pyrite have been

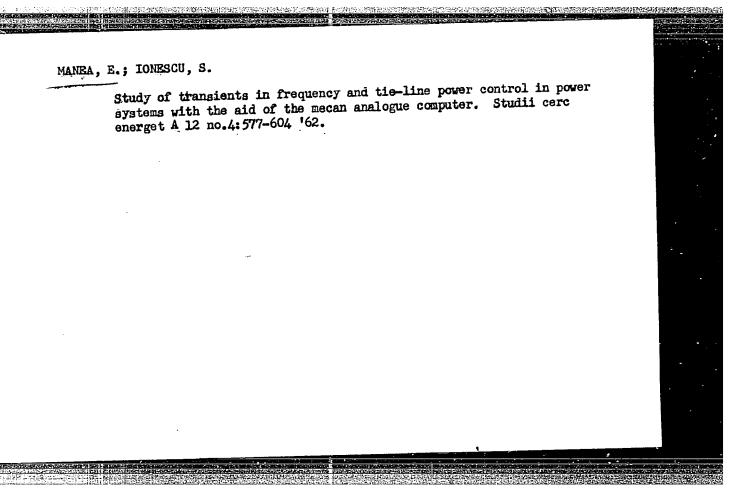
determined: a syngenetic and an epigenetic which was deposited along the fissures and planes of stratification during the filtration of iron containing solutions.

Card 1/1

15

ANAC ASTU. M., ing.; MANFA, D., ing.; MIHAIL, D., ing.; NICOLAESCU, G., ing.

International Symposium of Geodesy, Sofia. Rev geodezie 8 r.o.4; U-72 '64.



MANEA. F.

Symmetrical stationary action of the synchronous motor in a saturated domain. p. 395. STUDII SI CERCETARI DE ENERGETICA. Bucuresti. Vol. 5, no. 3/4, July/Dec. 1955.

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 5, No. 11, November, 1956

MANEA, F.

Comparative study on a new way to determine static stability of electric systems. p. 432. STUDII SI CERCETARI DE ENERGETICA. Bucuresti. Vol. 5, no. 3/4, July/Dec. 1955.

SOURCE: East European Acessions List, (EEAL), Library of Congress, Vol. 5, No. 11, November, 1956.

MANEA, F.

Boundary conditions for static stability of electric-power systems.

P. 329 (Academia, Republicii Populare Romine. Institutul de Enerretica. Studf Si Cercetari de Energetica. Vol. 6, no. 3, July/Sept. 1956, Bucuresti, Rumania)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7, no. 2, February 1958

MANEA, F.

Equivalent generator in the study of static stability. In French p.221

REVUE D'ELECTROTECHNIQUE ET D'ENERGETIQUE. JOURNAL OF ELECTROTECHNICS AND EMERGETICS. (Academia Republicii Pop ulare Romine. Institutul de Energetica)
Bucuresti, Rumania. Vol. 2, no. 2, 1957

Monthly List of East European Accessions (EEAI) LC, VOL. 8, no. 0, Sept. 1050 Uncl.

MANEA, F.

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Transient electromagnetic symmetric regimes of asynchronous machines.

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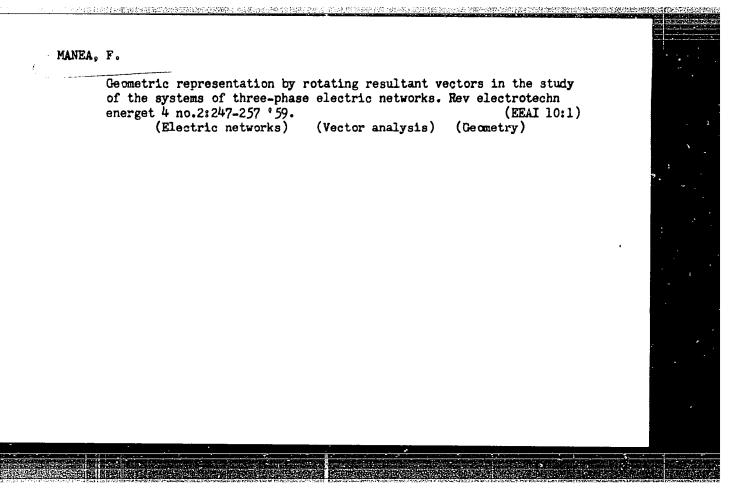
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TECHNOLOGY

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Uncl.

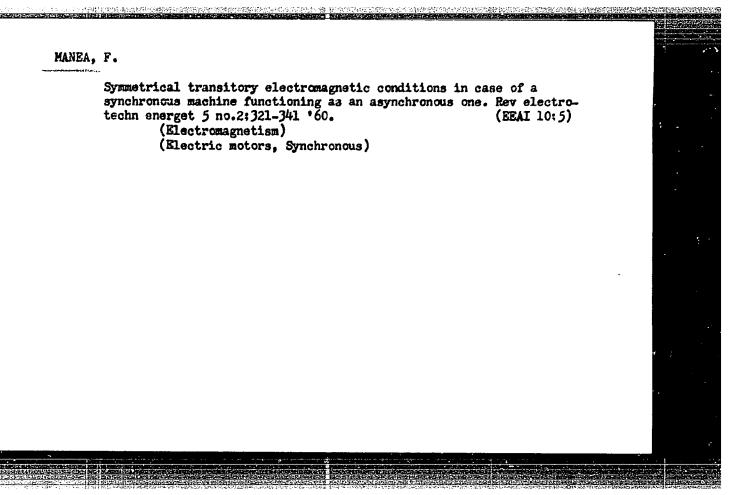
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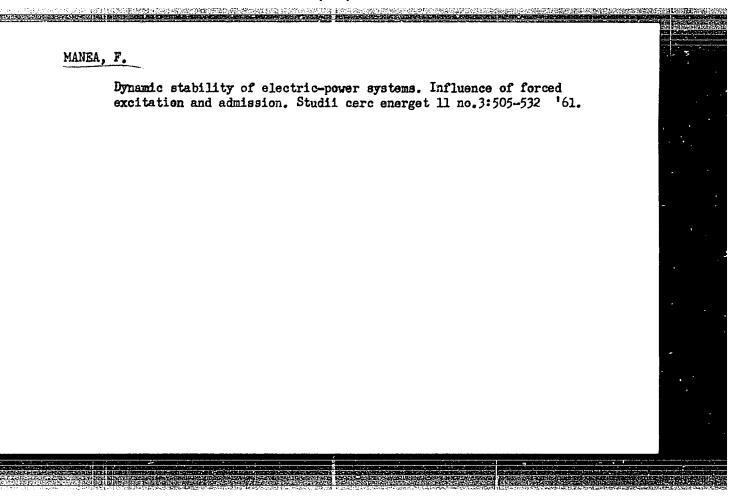
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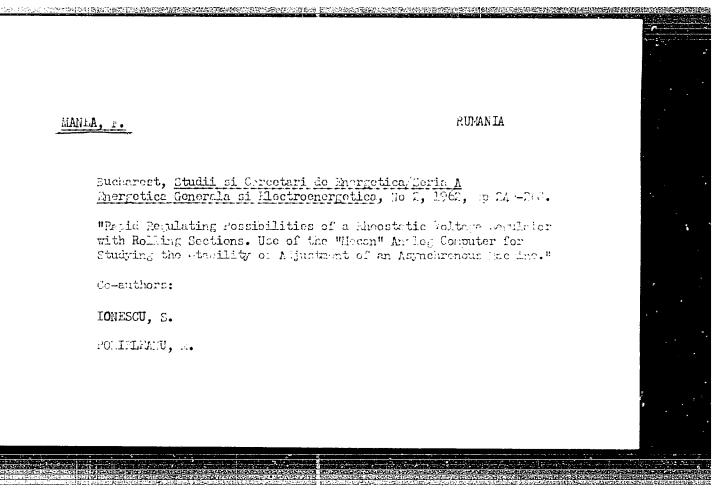
General equation of the tensions and complex in the coordinates of the mobile axes in synchronous machines. p. 275.

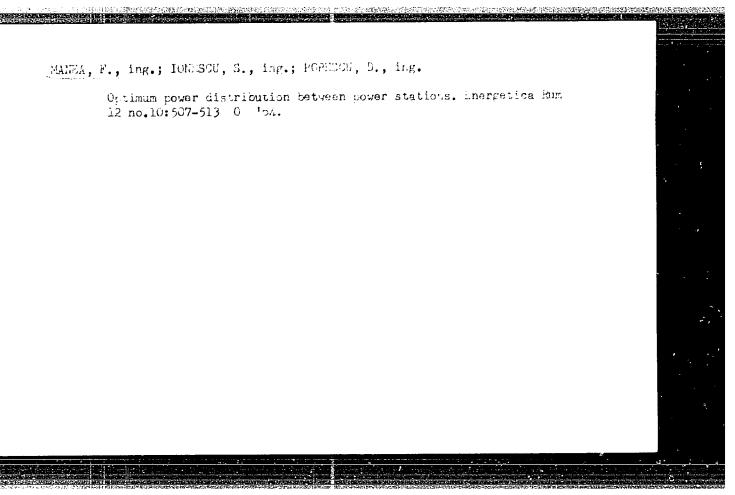
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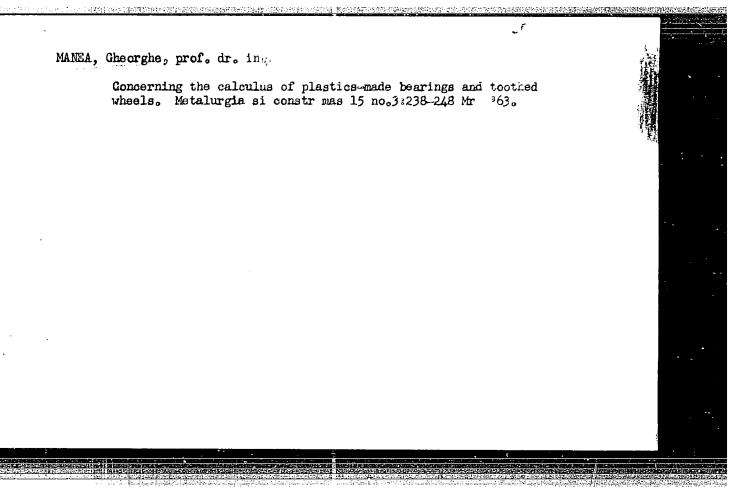
(Bearings(Machinery)) (Flastics)

"Journal bearings; Computation, design, lubrication" by [conferentiar la Institutul politehnic, Bucuresti, si Membru al Comitetului de redactie, "Studii si cercetari de mecanica aplicata] N. Tipei, V.N. Constantinescu, Al. Nica and O. Bita. Reviewed by Gh. Manea. Studii cerc mec apl 13 no.4:1035-1037

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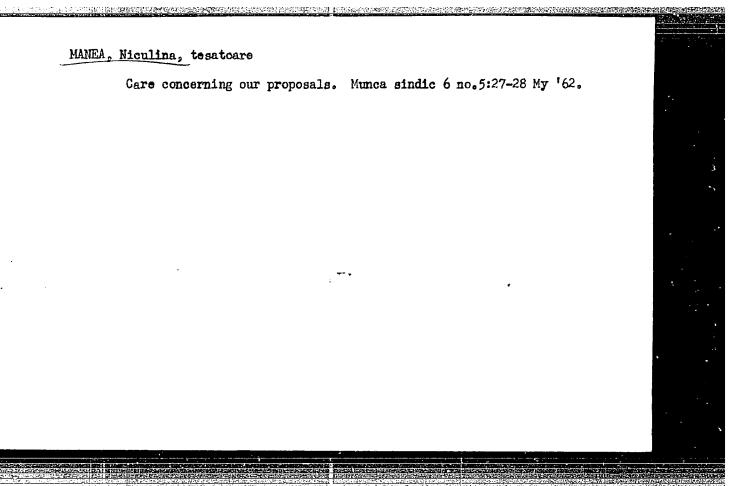
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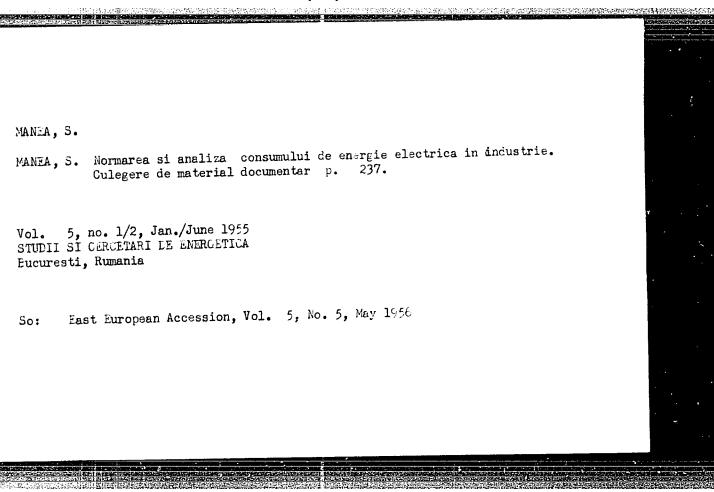
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Freliminary research on the hydrolyzing action of some fodders with hydrochloric acid. Studii agr Timisoara 10 no. 2: 297-305 Jl-D '63.

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RUMANIA

BAIMUS, G., LUNGU, Micaella, NASTAC, Elizabeta, RUTTER, G., STOIAN, M., CAPOTA, Stela, and MANEA, Tanta, of the Institute of Inframicrobiology (Institutul de Inframicrobiologie) of the Academy of the Socialist Republic of Rumania (al Academiei Republicii Socialiste Romania).

"Experimental Studies in Murine Leukemia. X. The Pathogenetic Character of a Suspension of Human Fibroblast Cells Infected with Virus C57 for the Developing Chick Embryo."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 17, No 2, 66, pp 105-109.

Abstract: The authors found that a suspension of 1,000,000 human fibroblast cells inoculated in vitro with virus C57 brought about the death of developing chick embryos in 100 percent of the observed cases. Death occurred after 3 to 5 days; the lesions observed were of the infiltrative and particularly of the proliferative type.

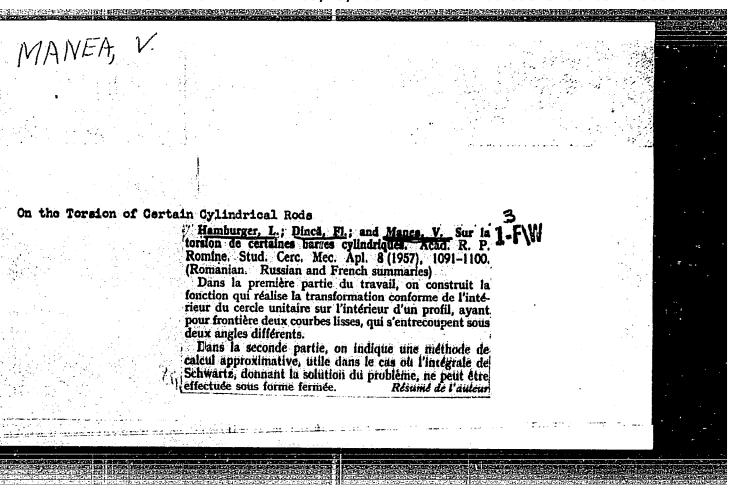
Includes 7 figures and 10 references, of which 5 Rumanian and 5 English-language. -- Hanuscript submitted 3 January 1966.

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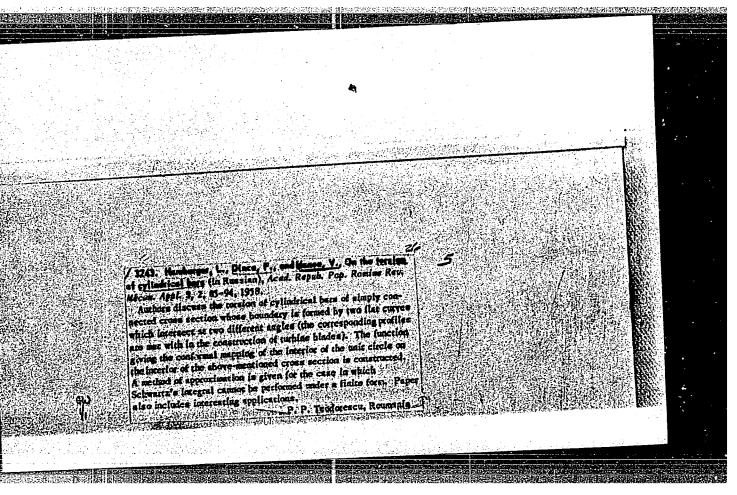
Calculation of the apparent mass for elongated hulls.

7. SL7 (Academia Republicii Populare Remine. In titutul de Facanica Aplic to. Studii Si Cercetari De Mecanica Aplicata. Vol. d, n. 1, 1 17. Bucuresti, Rumanis)

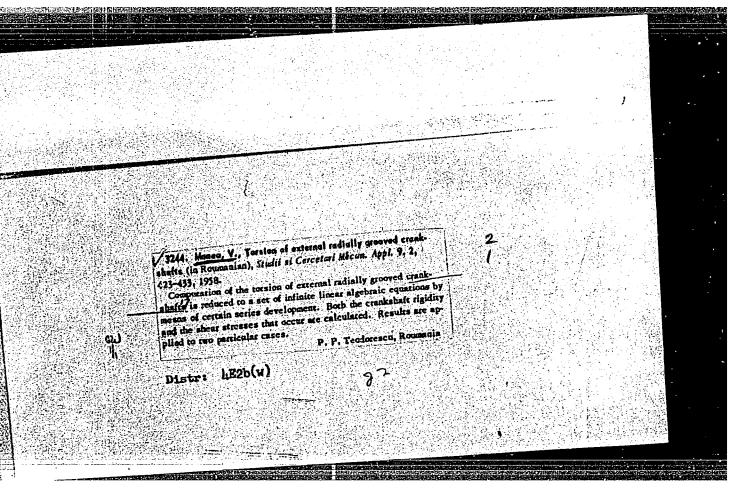
Footbly Index of East European Accessi ns (ELAI) 10. Vol. 7, no. 2, February 1958



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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032120008-4



Manca, V.

Torsion of a hollow axle with radial internal or external grooves. p. 1035.

Academia Republicii Populare Romine. STUDII SI CERCETARI DE MECANICA APLICATA. Bucuresti, Rumania. Vol. 9, no. 4, 1958.

Monthly List of East Accessions (EEAL) LC Vol. 9, No. 2, January 1960.

Uncl.

accomplish then the transformation:

(4).

80478 RUM/8-59-1-12/24 24.4100 V., Procopovici, E. AUTHORS: Manea, An Extension of the Solution of the Torsion Problem of Some Turbine Blades 26 TITLE: Studii si Cercetări de Mecanică Aplicată, 1959, Nr 1, pp 203 - 209 (RUM) PERIODICAL: Studying the bending and the torsion of some turbine blades, Jan Polasek and Ladislav Spacek [Ref 1] give the solution for only a special type of ABSTRACT: blade shape, obtained by the transformation: **(1)**. o< ₹<1. If $\gamma = \frac{1}{2}$, one obtains the Benoulli's lemniscate, which is also treated by N.I. Mesulishviliy [Ref 2]. The authors first consider the function: (3),0< 7<1, which transforms the unity circle into a symmetric biconvex shape, having the dehydral angle equal with $\gamma \bar{\gamma}$, and the chord equal with c_1 , and

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 $z = (z_1 - z_0)^m$, In case that m = 2, the $0x_1$ axis is transformed into a parabola (Figure 1).

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RUM/8-59-1-12/24

An Extension of the Solution of the Torsion Problem of Some Turbine Blades

Inserting $y_1 = 0$ in (4), they obtain:

$$x = (\alpha - x_1)^2 - \beta^2, \tag{5}$$

inserting
$$y_1 = 0$$
 and $y = 2 \beta (\alpha - x_1)$ (5)
and $y = 2 \beta (\alpha - x_1)$ (5).

and
$$y = 2 (5 (\alpha - x_1))$$

After eliminating they derive the equation of the parabola:

$$x = \frac{y^2}{4 \beta^2} - \beta^2,$$

(6),

The c₁

the shape of which is depending on the value selected for β . The c_1 chord of the symmetric biconvex shape is bended and becomes a parabola arc, thus the obtained shape has the chord "c" and the "f" rise given by the formulae:

$$c = c_1 \sqrt{(c_1 - 2 \propto)^2 + 4 \beta^2}$$
 (7),

obtained shape has the thorefore
$$c = c_1 \frac{\sqrt{(c_1 - 2 \propto)^2 + 4 \beta^2}}{\sqrt{(c_1 - 2 \alpha)^3 + 4 \beta^2}}$$
(7),
$$f = \frac{\beta c_1^2}{2} \frac{1}{\sqrt{(c_1 - 2 \alpha)^3 + 4 \beta^2}}$$
(8).

In case of thin shapes, the parabola arc AB represents the shape skeleton, which allows the evaluation of its curving by the relation (8). The corresponding coordinates of the leading and trailing edges can be deter-

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An Extension of the Solution of the Torsion Problem of Some Turbine Blades

mined by the relations (5) and (5'), by taking for the first $x_1 = c_1$ and for the latter $x_1 = 0$. The resulting shapes have a more evenly distributed thickness along the chord. The tracing of the shapes can be easily accomplished by using the polar coordinates. Choosing the point $P(x_0)$ named modeling pole (Figure 1), it can be established that point $r(x_0)$ named modering pole (rights 1), to tail 30 distributions of the used transformation if $z_1 - z_0 = \rho_1$ ei τ 1, then on the base of the used transformation (4) z is: $z = \rho$ ei τ 1, then on the base of the used transformation (4) z is: $z = \rho$ ei τ 1. Thus, the vector radius ρ 0 of the point "M₁" from the plane "z₁" corresponds in the "z" plane the vector radius ρ 1 = ρ 1, the angles having the relation τ 2 = ρ 3. 2 \mathcal{T}_1 . The profile can be graphically constructed with all these elements. If m > 2, the real axis of the z_1 plane is transformed in a curve which can be determined in the same way. If m = 3, the $0x_1$ axis is transformed into a folium of Descartes. Shapes with rounded trailing edges can be obtained on the basis of the transformation (3). A smaller curved radius at the trailing edge can be obtained the smaller δ is. Using the transformation (4) in a similar way, shapes of different curvings with rounded trailing edges can be obtained. An approximate method given in [Ref 5] is being used for the solution of the torsion problem of turbine blades having a shape mentioned in subject article.

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An Extension of the Solution of the Torsion Problem of Some Turbine Blades

Starting with a complex function of torsion:

the authors deduce
$$C_{n} = \begin{cases} \frac{1}{2} \frac{\sigma}{\sigma^{n+1}} & d\sigma \end{cases}, \tag{10}$$

and
$$|z(\theta)|^2 = k^2 |z(\theta)|^2 = k^2 \left(\frac{\alpha_0}{2} + \sum_{n=1}^{\infty} \alpha_n \cos n \theta + \beta_n \sin \theta\right)$$
 (14),

which lead to:

$$c_n = k^2 \pi (\beta_n + i\alpha_n), \qquad (15)$$

and
$$f(\zeta) = \frac{k^2}{2} \sum_{0}^{\infty} (\beta_n + i \alpha_n) \zeta^n$$
 (16).

The torsion rigidity [Ref 2] expressed by:
$$D = \mu (D + I)$$
(17)

The torsion rigidity [Ref 2] expressed by:
$$D = \mu (D_0 + I)$$
in which:
$$D_0 = -\frac{k^4 \pi}{4} \sum_{0}^{\infty} (\alpha_n^2 + \beta_n^2), \qquad (18),$$

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RUM/8-59-1-12/24

An Extension of the Solution of the Torsion Problem of Some Turbine Blades

$$I = \frac{k^{4}}{4} \int_{\Gamma_{0}} |z(\tau)|^{4} d\tau, \qquad (19).$$

The complex effort is determined by the known formula and the angle of specific twisting by the formula: $\omega = \frac{M_t}{D}$.

For the practical solution it has been observed that the function $|z|(\theta)|^2$ can be represented graphically. $|z|(T)|^4$ necessary for the integration of (19) is also graphically traces. The recommended problem can thus be completely solved. In the present case, the integral equation (12) can be analytically solved, which is reduced to the sum of Euler integrals of the first species.

There are: 3 sets of diagrams and 7 references, 3 of which are Rumanian, 2 English, 1 Russian and 1 Czechoslovakian.

SUBMITTED:

October 9, 1958

Card 5/5

MANEA, V.

On the torsion of the axles with radial grooves. In Russian. p.529.

REVUE DE MECANIQUE APPLIQUEE. (Academia Republicii Populare Romine. Institutul de Mecanica Aplicata)
Bucuresti, Rumania
Vol. 4, no. 3, 1959.

Monthly list of Eastern European Accession Index (.EAI) LC vol. &, No. 11 November 1959 Uncl.

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R/008/60/000/004/004/018 A125/A126

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AUTHOR: Mane

Manea, V.

TITLE:

Extended use of the Darcy Law

PERIODICAL:

Studii și Cercetări de Mecanică Aplicată, no. 4, 1960, 865 - 875

TEXT: The author examines the possibilities for an extended use of the Darcy Law V = kj (1). After briefly referring to N. P. Puzrevskiy and K. Terzagi, C.A. Khristianovich, and N. N. Pavlovski, he derives the differential equation of the fluid motion through porous media:

$$\frac{d\overline{V}}{dt} = -\frac{1}{\rho} \nabla p + m\overline{f}_{e} - q\overline{V}$$
 (4)

in which V= the filtration speed, m= porosity coefficient, $\overline{f}_e=$ the field of external forces applied to the mass unit and $-q\overline{V}$ is taken from the function: $m\overline{R}=-q\overline{V}$, (3), \overline{R} being the filtration resistance referred to the mass unit. This equation shows that in case m=1, there is an ideal flow, and in case m=0, the flow speed is zero. The author completes the equation (4) to obtain a Navier-

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R/008/60/000/004/004/018 A125/A126

Extended use of the Darcy Law

-Stokes equation, i.e., the flow of a viscous fluid. On the impermeable walls which limit the respective porous media, the filtration speed is zero. In case of free surfaces which limit the porous medium, the pressure is equal to the external pressure. The author then studies several simple flow examples. He first considers a two-dimensional stationary flow through a porous medium, limited by two parallel plane walls of an incompressible fluid neglecting the field of external forces. The flow through a porous medium with low permeability is slightly influenced by the pressure of the walls. More interesting is the flow in the vicinity of the wall. This consideration requires a smooth surface and an adherence of the fluid to the wall. If the surface presents a certain roughness, the flow along the surface can be assumed to be a flow through a medium with a porcsity varying between 0 and 1. The author has tried to explain in subject article the extension possibilities for the application of Darcy's Law, or eventually a more general law. In case of hydromechanical flows around bodies one can assume the roughness to be a medium of variable porceity, having a certain thickness. Thus, interesting results regarding the friction of the fluid on the surface of the body arround which it flows, can be obtained. There are 6 figures and 4 Soviet-bloc references.

SUBMITTED:

February 6, 1960

Card 2/2

"APPROVED FOR RELEASE: 03/13/2001 CIA-R

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R/008/62/013/003/003/006 D272/D308

AUTHOR:

Manea, V.

TITLE:

Non-linear equations of motion of a continuous defor-

mable medium in any curvilinear coordinates

PERIODICAL:

Studii și cercetări de mecanică aplicată, no. 3,

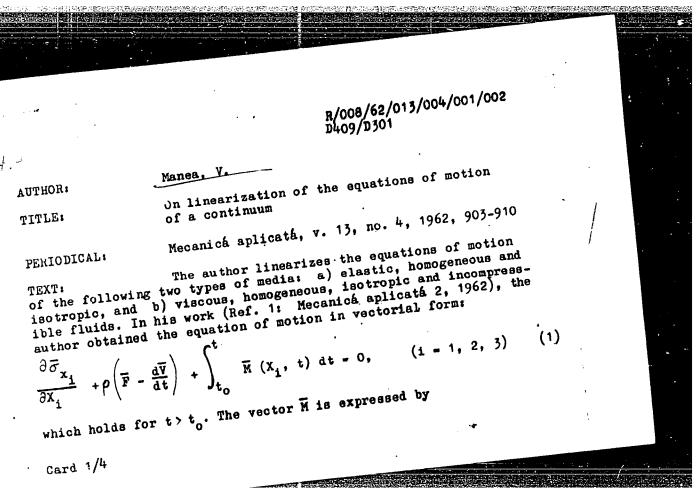
1962, 669 - 680

TEXT: The non-linear equations of motion of a deformable continuous medium established earlier for a tri-orthogonal straight-line coordinates system are now generalized for a system of any curvilinear coordinates, after first determining the velocity of deformation of such a medium and the variation of the tensions in it with time. These generalized equations are then applied to the particular case of a system of orthogonal curvilinear coordinates. Further simplification to a system of orthogonal rectilinear coordinates yields the results of the previous paper.

SUBMITTED:

February 22, 1962

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R/008/62/013/004/001/002 D409/D301

On linearization of the equations ... D409/

$$\overline{M} = \frac{\partial}{\partial X_{i}} \left(\dot{\alpha}_{i}, \overline{\sigma}_{x_{i}} + \sigma_{x_{i}x_{k}} \dot{\overline{C}}_{k}^{\prime} \right) + \left(\frac{\overline{v}}{X_{i}} \overline{v} \right) \overline{\sigma}_{x_{i}} + \rho \overline{v} \left(\overline{F} - \frac{d\overline{v}}{dt} \right), \quad (2)$$

where \overline{c}_{x_1} is the stress vector, \overrightarrow{c}_{i} , are the components of the strain-rate vector, \overrightarrow{t}_{k} is related to the velocity vector, strain-rate vector and to the unit vectors \overline{t}_{i} of the coordinate-axes, $\overline{c}_{i} = \overline{c}_{i} = \overline{c}_{$

Card 2/4

R/008/62/013/004/001/002 D409/D301

On linearization of the equations ...

 $(\lambda + \mu) \frac{\partial \theta'}{\partial x_{k}} + \mu \Delta u_{k}' + \rho \left(F_{k}' - \frac{\partial^{2} u_{k}'}{\partial t^{2}}\right) + \frac{\partial}{\partial x_{1}} \left(\frac{\partial u_{k}'}{\partial x_{j}} \sigma x_{1}' x_{j}\right) = 0,$ $(1, j, k = 1, 2, 3; j \neq k), \qquad (14) \qquad \iint$

which can be used in applications; $\sigma_{x_i^{x_j}}^{o}$ is determined from the equation

 $\frac{\partial \sigma_{\mathbf{x_i}\mathbf{x_j}}}{\partial \mathbf{x_i}} + \rho \mathbf{F_j^o} = 0, \tag{15}$

with the corresponding boundary-conditions. The author, however, does not dwell on the boundary conditions. In the second case (viscous fluid-flow), the author obtains a linearized equation which can be further simplified in particular cases; thus, one could assume that the viscous perturbed flow is superposed on an initial motion with- or without friction. The most important English-language reference reads

Card 3/4

On linearization of the equations ... D409/D301

as follows: C.C. Lin, Some mathematical problems in the theory of the stability of parallel flows. J. of Fluid Mechanics, 10/3 May

SUEMITTED: April 28, 1962

Card 4/4

MANEA, V.

On the theory of elastic plane plates of mean thickness. Rev mec appl Roum 9 no.6:1361-1380 '64.

1. Institute of Applied Mechanics of the Rumanian Academy, Bucharest. Submitted July 17, 1964.

A theory of elastic plane plates of medium thickness. Studii cerc mec apl 17 no.6:1513-1532 '64.

1. Institute of Applied Mechanics, Rumanian Academy. Submitted July 17, 1964.

EVIT (d)/EMP(w)/EWA(d)/T-2/EMP(k)/EMA(h) Pf-4/Peb EM RU/0019/65/010/002/0333/0350 ACCESSION NR: AP5014660 539.3:517.9 AUTHOR: Menea. V. 210 On the nonlinear theory of thin elastic plates without considering the Love-Kirchhoff hypothesis SCURCE: Revue Roumaine des sciences techniques. Serie de mecanique appliquee, v. 10, no. 2, 1965, 333-350 TOPIC TAGS: elastic plate, plate bending, plate flexure, thin plat ABSTRACT: The author uses some previous results of his work (Rev. Roum. Sci. Techn.-Mec. Appl. 1964, v. 9, no. 1, and no. 2) concerning the nonlinear equations of motion of a continuous medium and a formulation of the theory of thin elastic plates, to develop nonlinear equations for thin elastic plates in a formulation independent of the Love-Kirchhoff hypothesis. The conditions for dynamic equilibrium of the plates is expressed in terms of forces and moments, with account taken of some geometrical nonlinearities. Nonlinear equations of thin elastic plates are expressed in terms of displacements and equations are derived which can be used to study in a nonlinear approximation the bending of plates, especially their elastic Card 3/2

ACCESSION NR: AP5014660 buckling. On the basis of the analysis it is concluded that the classical formulation is approximate and that the proposed equations can improve the accuracy of the results. Orig. art. has: 59 formulas: [02] ASSOCIATOR: Institute of Applied Mechanics of the Academy of the RPR			
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∭ Card 2/2			

MANEA, 7.

Preliminary note on the Hydroidea along the Rumanian littoral of the Black Sea. p. 149.

STUDII SI CERCETARI DE MIOLOGIE. SERIA BIOLOGIE ANIMALA. Bucuresti. Vol. 11, No. 2, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960. Uncl.

MANEA, Vasile; SKOLKA, Hilarius

Marine microphytobenthos of the littoral of Chituc, Comunicarile

AR 11 no.5:535-538 My '61.

1. Statiunea de cercetari marine, Constanta. Comunicare prezentata

de Th. Busnita, membru corespondent al Academiei R.F.R.

MANEA, Vasile

New hydroids in the Rumanian waters of the Black Sea. Comunicarile AR 11 no.7:845-853 161.

。 第一章

1. Comunicare prezentata de Th. Busnita, membru corespondent al Academiei R.P.R.

BECHESKU, M. [Bacescu, M.] GOMÇII, M.T. [Gomoiv, '.T.]; BODIANU,
N. [Bodeanu, N.];, na.lana; MIUL.L., G. "Miuller, G.]
MANIA, V. [Manea, V.]

Ecologic investigations of the Black Sea. Rev biol 7
no. 4: 561-582 '62.

