SWIECKI, Jeremi; SLOMSKA, Janina

Palliative therapeutical procedure in undifferentiated cancer of the bronchus. Nowotwory 15 no.2:165-167 Ap-Je '65.

- 1. Z Instytutu Onkologii w Gliwicach (Dyrektor: dr. med.
- J. Swiecki).

BLOCH, Bronislawa; KANIA, Izabella; SLOMSKI, Czeslaw

Case of adrenogenital hyposalemic syndrome in a 3 week infant.

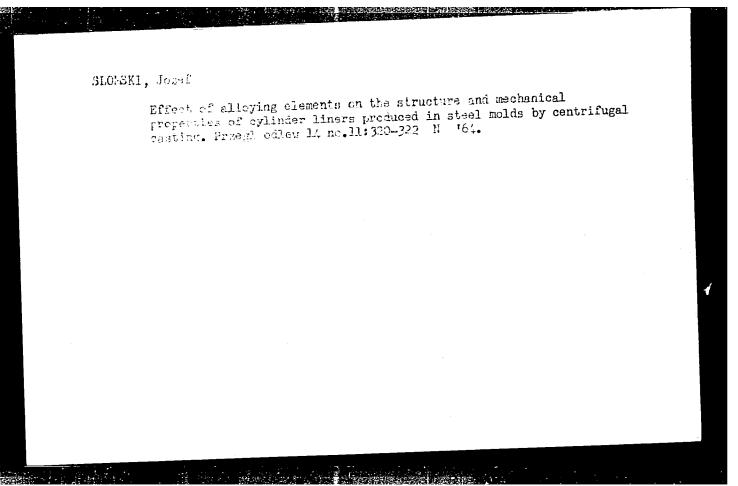
Pediat. polska 33 no.1:103-106 Jan 58.

1. Z I Kliniki Chorob Dzieciecych A.M. we Wroclawiu. Kierownik:

prof. dr med. H. Hirszfeldowa i z Zakladu Medycyny Sadowej A.M.
we Wroclawiu. Kierownik: prof. dr med. B. Popielski.

(ADRENOGENITAL SYNDROME, blood in
hyposlaemia in 3 week old inf. (Pol))

(KIECTROLYTES, in blood
defic. in adrenogenital synd. in 3 week eld inf. (Pol))



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SCOMSKI, PREEMYSCAW

KEPSKI, Apolinary; SLOMSKI, Przemyslaw, Warszawa, Wawolnicka 29 m.34

Two cases of encephalopathy caused by tetraethyl lead poisoning; treatment with BAL. Neurologia etc. polska 5 no.1:89-100 Jan-Feb 55.

1. Z I. wojskowego szpitala okregowego.

(BRAIN, diseases

caused by tetraethyl lead pois., ther., dimercaprol)

(IEAD FOISONING

tetraethyl, causing encephalopathy, ther., dimercaprol)

(DIMERCAFROL, ther. use encephalopathy, caused by tetraethyl lead pois.)
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Attempted therapy of mystania dystrophical and of mystonia congenita with ACTH and quinine. Heur. & c polska 5 no.4: 419-430 July-Ang '55. 1. 0 Oddziału Heurolegicznego I Wejskowego Szpitala Okregowego w Warszawie. (MYOTONIA CONGENITA, therapy. ACTH & quinine) (MYOTONIA CONGENITA, therapy. ACTH & quinine) (ACTH, therapeutic use, myotonia atrophica & myotonia congen.) (QUININE, therapeutic use, myotonia atrophica & myotonia congen.)

POLAND

SLOMSKI, Przemyslaw and MASTALERSKI, Jerzy, Neurological Division (Oddzial Neurologiczny) (Director: Dr. Felicjan ROGULSKI), First District Military Hospital (I Wojskowy Szpital Okregowy) in Warsaw

"Differential Diagnosis in Traction Injuries of Brachial Plexus."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 36, 2 Sep 63, pp 1349-1352

Abstract: [Authors' English summary] Authors describe three cases of traction injury of brachial plexus with avulsion of norve roots. Myelography was carried out in all cases, and the histamine test (after Bonney) in two. Authors discuss the value of the various criteria in establishing the site of the lesion in such cases, with myelographic demonsuration of the root avulsion being the most valuable diagnostic aid. 11 references: one in German, all others Western.

1/1

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651330010-1"

POLAND

SLOMSKI, Prtemyslaw [Affiliation not given]

"Review of Foreign Periodicals."

Warsaw, Polski Tygodnik Lekarski, Vol. 17, Yo 44, 29 Oct 62, рр 1735-1736.

Abstract: Review of selected articles in the British Medical Journal, No 5282 and in the Journal of the American Medical Association, No 10.

ACC NRI AR7004105 (N) SOURCE CODE: UR/0169/66/000/012/V023/V023

AUTHOR: Slomyanko, P .-- Slomianko, P.

TITLE: Investigation of coastal sand dune migration

SOURCE: Ref. zh. Geofizika, Abs. 12V132

REF SOURCE: Sb. 2-y Mezhdunar. okeanogr. kongress, 1966, Tezisy dokl.

M., Nauka, 1966, 351-352

TOPIC TAGS: sand dune, wind direction, sand test, migration

ABSTRACT: The Gdan'sk (Danzig) Marine Institute has been investigating the migration of sand dunes along the Baltic coast. The following characteristics are being studied: a) the predominant direction of the migration of sand dunes along the coast, and its force and disposition in long range terms; b) direction, power and structure of the individual migration of dunes arising during storms; c) the intensity and direction of transverse migration of sand dunes. The problems are investigated using a dual approach: 1) theoretical formulas are used for statistical determination of dunes, based on wind and wave observations; 2) parallel investigations are carried out of sea swells, sea bottom changes,

Card 1/2

UDC: 551.35

THE RESERVE OF THE PROPERTY OF

SLOMYANSKIY, A.V.

BARANOV, A.F., redaktor; RUDOY, E.F., redaktor; SOLOGUBOV, V.N., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor toma; ALBEGOV, N.A., kandidat tekhnicheskikh nauk; VASIL'YEV, B.K., inzhener; VERSHINSKIY, S.V., kandidat tekhnicheskikh nauk; VINOGRADOV, G.P., kandidat tekhnicheskikh nauk; VINOKUROV, M.V., professor, doktor tekhnicheskikh nauk; GOLOVANOV, V.G.. kandidat tekhnicheskikh nauk; GOHDEYN, A.S., dotsent, kandidat tekhnicheskikh nauk; GURSKIY, P.A., dotsent, kandidat tekhnicheskikh nauk; GUREVICH, A.N., kandidat tekhnicheskikh nauk; DOMBROVSKIY, A.B., dotsent; YEGORCHENKO, V.F., professor, doktor tekhnicheskikh nauk: IVANOV, V.N., professor, doktor tekhnicheskikh nauk; KARVATSKIY, B.L., professor, doktor tekhnicheskikh nauk; KOROLEY, K.P. professor, doktor tekhnicheskikh nauk; MUCHKIN, I.N., kandidat tekhnicheskikh nauk; POPOV, G.V., inzhener; PROSKURNEV, P.G. inzhener; SAFOE-TSEV, K.A., izhener: SETICHASTNOV, I.F.dotsent, kandidat tekhnicheskikh nauk; SLOMYANSKIY, A.V., dotsent, kandidat tekhnicheskikh nauk; STEPAROV, A.D., dotsent, kandidat tekhnicheskikh nauk; SYROMYATNIKOV, S.P., akademik[deceased]; TERNOVSKIY, V.A., dotsent; kandidat tekhnicheskikh nauk; TRUBETSKOY, V.A., kandidat tekhnicheskikh nauk, KHOKHLOV, N.F., kandidat tekhnicheskikh nauk; SHARONIN, V.S., kandidat tekhnicheskikh nauk; SHLYKOV, Yu.P., dotsent, kandidat tekhnicheskikh nauk; YEVTUSHENKO, A.M. kandidat tekhnicheskikh nauk, retsenzent; IVANOV, V.N., professor, doktor tekhnicheskikh nauk, retsenzent; PANOV, N.I., dotsent, kandidat tekhnicheskikh nauk, retsenzent; SLOMYANSKIY, A.V., dotsent, kandidat tekhnicheskikh nauk, retsenzent; UTYANSKIY, L.I., inzhener, retsenzent; NETYKSA, V.M., professor, doktor tekhnicheskikh nauk, retsenzent; (Continued on next card)

BARANOV, A.F., -- (Continued) Card 2. TOPORNIN, G.S., inzhener, retsenzent; DOMBROVSKIY, A.B., dotsent; retsenzent; POYDO, A.A., kandidat tekhnicheskikh nauk, retsenzent; YAKOBSON, P.Ye., laureat Stalinskoy premii; dotsent; kandidat tekhnicheskikh nauk, retsenzent; POPOV. A.A., professor, dektor tekhnicheskikh nauk, retsenzent; PROSKURNEV, P.G., inzhener, retsenzent; SAFONTSEV, K.A., inzhener, retsenzent; SERAFIMOVICH, V.S., kandidat tekhnicheskikh nauk; retsenzent; TRAVIN, P.I., inzhener, retsenzent; FOKIN, K.F., kandidat tekhnicheskikh nauk, retsenzent; SHCHERBAKOV, V.P., inzhener, retsenzent; SHADUR, L.A., dotsent; kandidat tekhnicheskikh nauk, retsenzent; TIXHONOV, P.S., inzhener retsenzent; TKACHENKO, F.D., inzhener; retsenzent; BABICHKOV, A.M. professor, doktor tekhnicheskikh nauk, retsenzent; KOROSTYLEV, A.I. inzhener, retsenzent; LEVITSKIY, V.S., dotsent; kandidat tekhnicheskikh nauk, retsenzent; KLYKOV, A.F., inzhener, retsenzent; SOLOGUBOV, V.N. redaktor; SHISHKIN, K.A., redaktor; SLOMYANSKIY, A.V. redaktor; SALENKO, S.V., redaktor; YUDZON, D.M. tekhnicheskiy redaktor.

[Technical reference book for railroad men] Tekhnicheskii spravochnik zheleznodorozhnika. Redaktsionnaia kollegiia: A. F. Baranov, i dr. Glav.redaktor. E. F. Rudoi. Moskva, Gos.transp.zhel-dor.izd-vo. Vol. 6 [Rolling stock] Podvizhnoi sostav. 1952. 955 p. (MLRA 8:9) (Railroads--Rolling-stock)

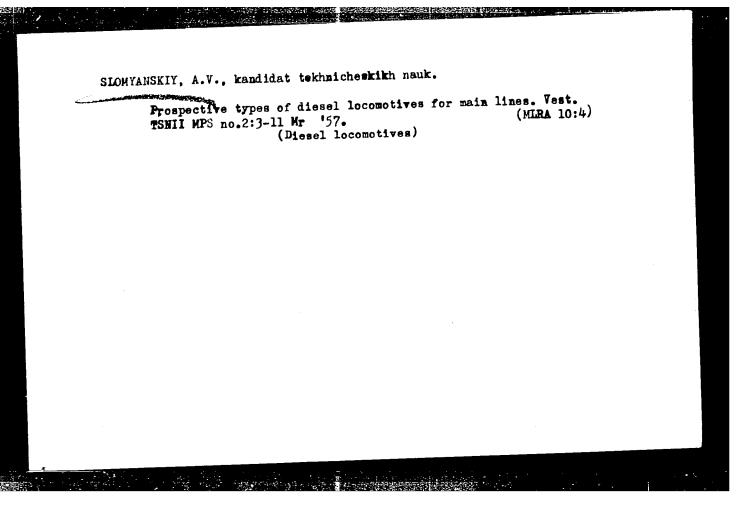
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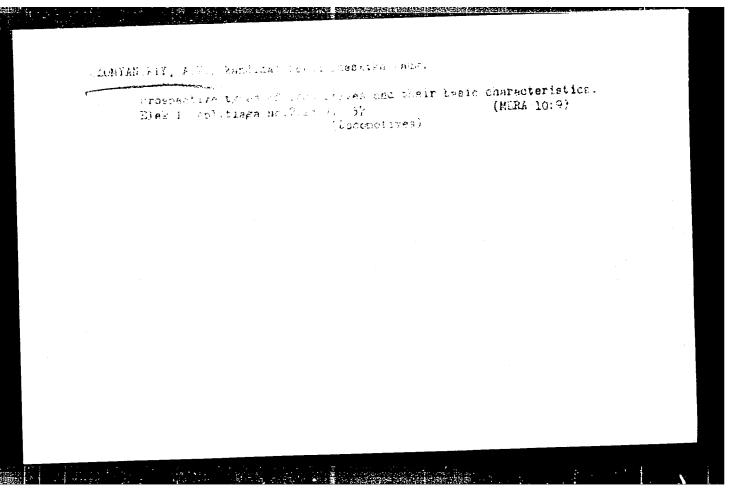
SLOTHLKIY, A. V.

BLIZNYANSKIY, A.S., inzhener, redaktor; Slownskiy, A.V., kandidat tekhnicheskikh nauk, retsenzent; MODEL', B.I., tekhnichaskiy redaktor

Problems in the construction, calculation and testing of locomotives; a collection of articles. Results of cooperation between the V.I. Lenin Polytechnical Institute in Kharkov and the Kharkov Transportation Machinery Manufacturing Plant] Voprosy konstruirovaniis, rescheta i ispytaniia teplovozov; sbornik. Itogi soiruzhestva Khar'kovskogo politekhnicheskogo instituta imeni V.I.Lenina i Khar'kovskogo soiuznogo ordena Lenina, ordena Trudovogo Krasnogo znameni i ordena Arasnoi zvezdy zavoda transportnogo mashinostroeniia. Moskva, Vos. nauchnotekhn. isd-vo mashinostroit. lit-ry. Vol. 2. 1957. 109 p. (MLda 10:10)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya. (Locomotives)





PRONTARSKIY, A.F., kand.tekhn.nauk; SLOMYANSKIY, A.V., kand.tekhn.nauk, dotsent; FUFRYANSKIY, N.A., doktor tekhn.nauk, prof.

Development of scientific investigations in the field of locomotive traction and railroad electrification. Vest.TSNII MPS 16 no.6:3-14 (MIRA 10:10) S 157.

(Railroads--Electrification) (Locomotives)

SLOMYANSKIY, A.V., kand.tekhn.nauk

New types of main-line electric and diesel locomotives used on railroads in the U.S.S.R. Vest.TSNII MPS 18 no.2:6-12 '59. (MIRA 12:6)

(Electric locomotives)
(Diesel locomotives)

SIOMYANSKIY, A.V., kand.tekhn.nauk; SURZHIN, S.N., inzh., red.; BOBROVA, Ie.N., tekhn.red.

[Selection of types of main-line locomotives] Vybor tipov magistral nykh lokomotivov. Moskva, Vses. izs-vo-poligr.ob*edimenie m-va putei soob., 1960. 163 p. (Moscow. Vsesoiuznyi nauchno-issledo-vatel skii institut zheleznodorozhnogo transporta. Trudy, no.184). (MIRA 13:11)

(Locomotives)

KOROLEV, K.P., doktor tekhn.nauk; SLOMYANSKIY, A.V., doktor tekhn.nauk

Requirements for the new high-speed locomotives. Zhel.-dor.transp. 45
no.12:33-39 D '63. (MIRA 17:2)

SIGMYANSKIY, G.A.

22936 Nvyvodu i analieu uravneniy dvizheniya simmetrikhnogo giroskopa.

Trudy mosk. Aviats. Tekhnol. In-ta, Vyp. 6, 1949, S. 85-95

SO: LETOPIS' NO. 31, 1949

SLOMYANSKIY, G.A.	US5 R.	· · · · · · · · · · · · · · · · · · ·
	care Clampanelil G. A. Integration of the equations of	
	motion of a symmetric astatic gyroscope (in Russian), Priti. Mat. Mcth. 17, 4, 411-122, July/Aug. 1953.	
이 보는 물로 기가 있는 살았다.	Cansider a symmetric astatic gyroscope. Let OXYZ be a fixed right-hand orthogonal trihedral whose Z-axis is directed upward	
회사 마시 사용자 사용사 등 수 회원성	1 Language of the Active withing the Filler, Lab Care Care	
그런 요요 그 통하는 것이 없는 어떻게 밝	ing tribedral with the s-axis along the axis of the rator and with the x-axis along the axis of the inner gindral hearings. The post-	
	and a state of the	
	is the angle between the z-axis and its projection on the XY- plane, and α is the angle between this projection and the Y-axis.	
경역보고 하는 이 모든 보고 회사를 했다.		
	The hand problem is $M = 1$. If the components of a torque applied are M_*M_* , $M_* = 0$, then the differential equations which govern the angles	
	그 있다. 🚜 🔐 회사 한 회사 하는 교육 교육에 동생 이렇게 스펙스럼 하는 하다면 하다는 보다 🕒	
	$\alpha \cos \beta = 2\alpha \beta \sin \beta + \pi \beta = \pi^{4} m_{y}$	
경영화 병송 내가 보는 것이 모든 것은	$\ddot{\beta} = n\dot{\alpha}\cos\beta + \dot{\alpha}\sin\beta\cos\beta = -n^{2}m_{a}$ [1]	
	where $n = H/A$, $m_s = M_s/An^s$, $m_y = M_y/An^s$, and where $H(=\text{const})$ and A denote the component of the kinetic moment	
- 일본 Barbara 1882년 - 1982년 - 1 - 1982년 - 1982	along the z-axis and the equatorial moment of mentia of the grant	
	scope, respectively.	
) in the following maps: [1] M = M, = U; (4) Mg Coulty	
	this continuous constant $M_s = 0$; (3) subcase of regular precession for $M_s = \text{const}$, $M_b = 0$; (4) $M_s = M_s(\beta)$, $M_s = 0$. E. Leimanis, Canada	
	보면 경험 등을 되었다. 중심 그 학교는 그 그릇은 경찰을 되었다.	
	이 사람들이 되는 사람들은 사람들이 가장 사람들이 가장 없는 것이다.	

SIONYANSKIY, G.A. Note on Greinacher's article. Izv. AN SSSR Otd.tekh.nauk no.11:154156 N '54(Gyroscope) (Greinacher, H.)

USSR/Engineering - Instrumentation

FD-3031

Card 1/1

Pub. 41-15/15

Author

: Slomyanskiy, G. A., Moscow

Title

: On the precession of a rapidly rotating gyroscope on Cardan joints

Periodical: Izv. AN SSSR, Otd. Tekh. Nauk 9, 175-176, Sep 55

Abstract

: Formulates a rule for precession applicable to a rapidly rotating gyroscope on Cardan joints the frames of which may be situated at any angle to each other. Formulae, diagrams. One USSR reference.

Institution:

Submitted : June 17, 1955

SLONYAHSKIY, G.A.

"Shortened Equations of Motion of a Rapidly Rotating Gyroscope in a Cardan Suspension and the Effect of the Static Disbalance of the Gyromotor on Gyroscope Behavior," by Candidate of Technical Sciences G. A. Slomyanskiy, Sovremennyye Voprosy Tekhnologii Sborki v Priborostroyenii (Contemporary Questions of Assembly Technology in Instrument Building), No 27, Moscow Aviation Technological Institute, Oborongiz, Moscow, 1956, pp 57-71

Studies the two most common cases of the positioning of a symmetrical gyroscope in a Cardan suspension (with the axes of the external gyro frame in vertical and horizontal positions). Presents shortened equations of motion of rapidly rotating gyroscopes, cites the law of the precession of a rapidly rotating gyroscope and integrates the shortened equations for the motion of such gyroscopes. The effect of the static disbalance of the gyromotor on gyro action is investigated.

SUM. 1287

SLIMYMULKY, GA

PHASE I BOOK EXPLOITATION

398

Moscow. Aviatsionnyy tekhnologicheskiy institut

- Nekotoryye voprosy sovremennoy tekhnologii priborostroyeniya (Some Problems in the Modern Technology of Instrument Making) Moscow, Oborongiz, 1957. 126 p. (Its: Trudy, vyp. 33) 3,700 copies printed.
- Ed. (title page): Polyakov, N. I., Professor; Ed. (inside book): Manuylov, L. K.; Ed. of Publishing House: Loseva, G. F.; Tech. Ed.: Rozhin, V. P.; Managing Ed. (Oborongiz): Latynin, Ye. V., Engineer.
- PURPOSE: This book is intended for engineers working in the instrumentation industry and students specializing in this field.
- COVERAGE: This is a collection of articles dealing with the theoretical and practical problems encountered in the instrument manufacturing industry. It covers the principal scientific research work done in the Department of Technology of Aircraft Instrument Manufacturing dealing with the development of modern processes of instrument manufacture. Special emphasis is placed on problems connected with increasing instrument precision and capacity and on the automation and mechanization of the instrument manufacturing industry. For the abstract of each article see Table of Contents.

Some Problems in the Modern Technology (Cont.)

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TABLE OF CONTENTS:

Introduction

Slomyanskiy, G. A., Candidate of Technical Sciences. Deflection of Elastic Members Due to Temperature Changes

This article deals with deflection of sensitive elastic members of various instruments and automatic controls caused by changes of temperature. The author states that when instruments are used under conditions where there is considerable temperature fluctuation in the area surrounding sensitive members, these members deflect without any change in the measured value, and as a result introduce error in the instrument reading. In order to determine these errors it is necessar to know the "thermal deflection" of elastic members which depends not only on temperature but also on the force-deflection diagram. According to the author this relationship is different for each individual member of the same design and therefore will have a different "thermal deflection." In this article the author develops a method for determining the "thermal deflection" based on an actual force-deflection diagram plotted for a determined temperature. Derived equations are given and their application to specific problems is illustrated. There are no references.

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Some Problems in the Modern Technology (Cont.)

*5*98

Polyakov, N. I., Professor, and Igoshin, F. F. Application of Ultrasonics in Instrument Manufacture

22

The purpose of this article is to acquaint the reader with applications of ultrasonics in instrument manufacture, and to present a general review of this subject. Basic properties of ultrasonic waves, their generation and propagation are discussed. The article contains illustrations and descriptions of various types of ultrasonic flaw detectors and describes their practical application. The authors state that further development in the field of ultrasonics and its industrial application will be along the following lines: 1) study of ultrasonic phenomena 2) search for new fields of application 5) development of new inexpensive and simple methods for producting ultrasonic waves. There are 12 references of which 5 are Soviet, 1 German, 3 English, 2 French and 1 Swiss.

Pryadilov, Yu. M., Candidate of Technical Sciences, Bridge With a Diode for Voltage Stabilizers

39

The author claims, that a.c. voltage stabilizers, having a bridge with a diode are the most economical of power consumption by control systems. By

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Some Problems in the Modern Technology (Cont.)

398

means of an experimental and theoretical investigation of a diode, the basic relations for a bridge with that tube are found. These data can be used for computation of a.c. voltage stabilizers. The author reports that technical specifications for an industrial model of this diode were set and that at the present time (1957) one of the electronic equipment plants released a trial series of these tubes. There are 7 references of which 5 are Soviet, 2 English.

Korablev, P. A., Candidate of Technical Sciences. Summation Methods for Error Scatter in Dimensions and Shape

57

This article analyzes accuracy of shape and accuracy of dimensions of machined parts. The author develops a method for adding up inaccuracies of shape and inaccuracies of dimensions and gives useful tables which make it possible to determine the spread of overall error for the given relation O_3/O_4 , (where O_3 = inaccuracy in shape, and O_3 = inaccuracy in dimensions). There are no references.

Card 4/g

Some Problems in the Modern Technology (Cont.)

398

Mikolayev, Ye. N., Senior Instructor, and Chumakov, V. P., Candidate of Technical Sciences Docent. Mechanized Winding of Small Rotors

74

In this article the authors discuss the development of new machine tools and techniques for winding small-sized rotors of electric motors widely used in aircraft instrumentation and automatic controls. The authors have developed a preliminary design and technical specifications for the construction of a machine tool for winding small-sized rotors, on the basis of which the Scientific Research Institute of Technology and Production Management in the Aircraft Industry has worked out the details and built a model of this machine. The model has been tested and successfully used in one of the plants of the Ministry of the Aircraft Industry. Schematic diagrams and detailed discussion of this machine tool is presented. The authors state that the new machine tool simplifies and facilitates the time-consuming manual winding operation. There are 3 Soviet references.

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Some Problems in the Modern Technology (Cont.)

398

Grigor'yev, B. V., Candidate of Technical Sciences. Some Problems of Disphragm Corrugation

84

In this article the author discussed problems connected with pressure and forces developed during the process of forming corrugated diaphragms. No references are given.

Kopanevich, Ye. G., Candidate of Technical Sciences. Automation of Drilling Operations in Instrument Manufacture

97

In this article the author discusses automation of drilling operations and suggests the following two ways in which it may be accomplished: 1) building a universal drilling machine with quick resetting for new drilling specifications and 2) developing and introducing special devices for performing automatic drilling operations on ordinary drilling machines. The two methods suggested are discussed in detail. The article contains schematic diagrams of automatic drilling machines. No references are given.

card 6/8

Some Problems in the Modern Technology (Cont.)

398

Fefer, A. I., Engineer, and Parfenov, O. D., Engineer. Mechanized Computation of Automatic Lathe Setups

101

The author discusses a newly developed device for checking the accuracy of setting-up automatic lathes. The principle of operation and examples of practical application of this device are presented. There are 4 Soviet references.

Podicnov, Ye. M., Engineer. On the Moment of Resistance to Rotation in Radial Ball Bearings of an Instrument

109

This article deals with the analysis of relationships between the friction moment of ball bearings and the angular displacement of the revolving bearing ring. The author states that this problem has not been thoroughly investigated in the literature. He concludes that the friction moment in the radial ball bearin varies with angular displacement of the revolving ring, and that the radial

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Some Problems in the Modern Technology (Cont.)

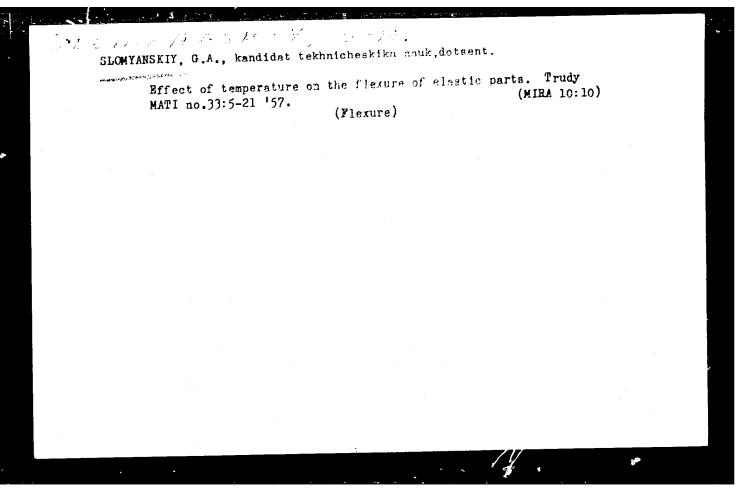
398

clearance causes its excentric motion. This motion produces an additional moment of resistance to rotation and causes vibrations of bearings at high speeds which cannot be eliminated by balancing, thus introducing errors in the instrument. There is one Soviet reference.

AVAILABLE: Library of Congres

GO/bmd 18 Aug 1958

Card 8/8



PHASE I BOOK EXPLOITATION 912

- Slomyanskiy, Grigoriy Aleksandrovich and Pryadilov, Yuriy Nikolayevich
- Poplavkovyye giroskopy i ikh primeneniye (Floati z Gyros and Their Application) Moscow, Oborongiz, 1958. 243 p. 4,000 copies printed.
- Reviewer: Fridlender, G.O., Doctor of Technical Sciences, Professor; Ed.: Yanovskiy, I.L, Engineer; Ed. of Publishing House: Petrova, I.A.; Tech. Ed.: Pukhlikova, N.A.; Managing Ed.: Sokolov, A.I., Engineer.
- PURPOSE: This book is intended for engineers working in the field of gyro-instrument manufacture, and may also be useful to students specializing in this field.
- COVERAGE: The authors outline briefly the basic properties of gyros, and their application for the determination of the position of any

Card 1/7

Floating Gyros and Their Application 912

object (aircraft, guided missile, etc.) in relation to some system of coordinates, either fixed or turning in a specified manner in space. They examine the application and possible uses of differentiating and integrating gyros. The authors consider in detail the design, the theory and the methods of testing floating differentiating and integrating gyros, and some problems of their application. They give actual data on American floating gyros, and a brief outline of physical bases of inertial navigating systems. Chapter VI is an abridged and revised translation of an article published in Aviation Week. The authors thank V.G.Denisov and G.T. Astavin for help in the collection of bibliography. There are 39 references, of which 16 are Soviet (including 1 translation) and 23 English.

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Applications of Gyros 1. Brief information on gyros with two degrees of freedom 2. Brief information on gyros with three degrees of freedom 3. Some cases of the application of gyros with three degrees 4. Stablizied platform 5. Differentiating gyro 6. Integrating gyro 7. Space integrator of angular velocity and application of the integrating gyro for geometrical stabilization 6. II. Design and Basic Parameters of Floating Gyros 1. Integrating gyros 2. Differentiating gyros 3. Floating gyro with three degrees of freedom 5. Application of gyros with three degrees of freedom 6. II. Design and Basic Parameters of Floating Gyros 7. Space integrating gyros 8. Floating gyros 9. Differentiating gyros 9. Floating gyro with three degrees of freedom
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6. Combination of inertial navigation systems with ot	her
systems of navigation 7. Some elements of inertial navigation systems	229 232
Bibliography on general and applied theories of gyroscop and on aircraft gyro-instruments	es, 241
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AVAILABLE: Library of Congress	
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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651330010-1"

CIA-RDP86-00513R001651330010-1 "APPROVED FOR RELEASE: 08/25/2000

YECHNAMISKIY, G.A.

24-2-9/28

Mayorov, S.A. and Slomyanskiy, G. A. (Leringrad, Moscow). On the gyroscopic effect and rotation of the balls in ball bearings. (O giroskopicheskom effekte i verchenii AUTHORS: TITLE:

sharikov v sharikopodshipnikakh).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, No.2, pp.58-63 (USŚR).

ABSTRACT: In previous work, known to the author, the sliding of balls in a ball bearing caused by gyroscopic forces has been considered only in thrust bearings. In the present paper an angular contact ball bearing is the subject of paper an angular compact pair bearing is the subject of analysis when high speed causes appreciable centrifugal forces on the balls and the outer race is stationary. On the assumption that the angular velocity of the ball forms a small angle with the line joining the contact points between the ball and the inner and outer races, because of geometry considerations considered in the paper, the or geometry considerations considered in the paper, the angular velocity of ball spinning about its in axis and of case rotation are derived, Eqs.(11), (10). The gyroscopic moment is found and the minimum bearing load, below which cliding begins is obtained. below which sliding begins, is obtained. These formulae coincide with the thrust bearing expression found y Card 1/2 Pangren. The limiting values of bearing load beyon which

On the gyroscopic effect and rotation of the balls in ball bearings.

sliding under the action of gyroscopic forces becomes destructive are found on the basis of a specific ball loading of 0.008 kg/mm². In an example of an instrument bearing of 1.588 mm bore, 6.623 mm o.d. operating at 24 000 r.p.m. the apex half-angle of the cone tangential to the outer race track is 12° and the conditions to ensure that gyroscopic forces are harmless are fulfilled, ensure that gyroscopic forces are harmless are fulfilled, though only with a small margin. In another bearing of though only with a small margin. In another bearing of the gyroscopic sliding of the balls has a destructive the gyroscopic sliding of the balls about the axis passing effect. The spinning of the balls about the axis passing through the two contact points is considered. This can also lead to rapid wear.

There are 3 figures and 2 Russian references.

SUBMITTED: August 20, 1957.

AVAILABLE: Library of Congress.

Card 2/2

SLOMY ANSKIR CA

24-58-3-27/38

AUTHOR: Slemyanskiy, G. A. (Moscow)

Buoyancy of Bodies Submerged in a Liquid which is in a Relatively Quiet State (Plavuchest' tel, pogruzhennykh v zhidkost', nakhodyashchuyusya v otnositel'nom pokoye) TITIE:

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 3, pp 152-153 (USSR)

ABSTRACT: On the basis of theoretical analysis it is shown that a body submerged in a liquid which is relatively quiet con-serves the same buoyancy as if it were located in a static reservoir. However, in the case of the fluid being relatively quiet, the buoyancy axis of the body will be directed along the real and not along the "virtual" vertical. There is 1 figure and no references.

SUBNITTED: November 27, 1957.

Card 1/1 1. Materials-Broyansy-inalysis

AUTHOR; Slomyanskiy, G. A. (Moscow)

sov/179-59-3-42/45

On Investigating the Permissible Variations in Rotation of a Turntable when Testing the Drift of a Floating Integrating TITLE: Gyroscope (Ob otsenke dopustimoy neravnomernosti vrashcheniya povorotnogo stola dlya ispytaniya poplavkovykh integriruyushchikh giroskopov na dreyf)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959, Nr 3, pp 211-212 (USSR)

ABSTRACT: The drift testing, which consists of determining its angular velocity ω_2 , is performed by means of a special rotating table as shown in the figure. moment M and to the angular velocity ω_2 , the electric current is being excited having the tension. U_ at the output of an angle gauge 5, which after being amplified by the amplifier 6 causes the shaft 2 to adjust its position. Thus, the platform 3 starts rotating with an angular velocity ω_3 . However, if the platform 3 angular regular fotations due to a certain additional develops irregular fotations due to a certain additional Card 1/2tension U_+ = const, then a drift with an error ϵ develops.

SOV/179-59-3-42/45

On Investigating the Permissible Variations in Rotation of a Turntable when Testing the Drift of a Floating Integrating Gyroscope

If $\omega_3^1 = -K_2U_+$ ($K_2 = \text{const}$) is the relative value of a specific angular velocity of the platform and $\delta = (\omega_3 - \omega_3^1)/\omega_2^1$ is its relative error, i.e. variations in rotation of the platform, then Eq (1) can be derived. Thus, in the case of $\delta = \delta$ sin $\forall t$, the equation of gyroscope can be shown as Eq (2), where H - kinetic moment, K_3 - specific damping moment, K_1 - characteristic of the angle gauge. From Eqs (1) and (2) the formula (3) can be derived from which the value of ω_3 for δ can be determined as Eq (4). The value of δ max (Eq (5)) can be determined from the expression for error ϵ . As an example, for $\omega_{2\text{max}} = 15^{\circ}/\text{hour}$ and $\omega_1 = 0.01^{\circ}/\text{hour}$, and $\sqrt{r} \ll 1$ in Eq (5), the value of δ is found from

 $\delta_{\max} < \frac{1}{\sqrt{T}} \left| \frac{\omega_1}{\omega_2} \right|$

Card 2/2
There are 1 figure and 2 Soviet references.
SUBMITTED: February 6, 1959

26538 \$/536/59/000/040/001/005 £191/£481

13,2520

AUTHOR:

Slomyanskiy, G.A., Candidate of Technical Sciences,

Docent

TITLE: Testing of floating gyroscopes

PERIODICAL: Moscow. Aviatsionnyy tekhnologicheskiy institut.

Trudy. No. 40, 1959. Voprosy tekhnologii

priborostroyeniya, pp.21-54

A turning rig for the testing of floating gyroscopes is TEXT; considered. Such a rig is a single axis integrator or, in other words, an integrating transmission. The transmitting and receiving elements in such an installation are floating integrating gyroscopes which can sense very small angular The rig is mounted on an adjustable base supported velocities. A shaft carrying the turntable is by a massive foundation. motorized and mounted on strictly perpendicular trunnions. A segment with holes on a pitch circle is attached to the motor body by which the turntable axis can be set at any inclination in a plane perpendicular to the trunnion axis. The subsequent analysis is concerned mainly with the vertical position of the Card 1/5

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Testing of floating gyroscopes

turntable axis except for the analysis of tests of integrating gyroscopes for drift. The equipment is provided with some means for the accurate measurement of the angle and the time of table rotation. The accuracy of angular measurement must be A floating integrating gyroscope and the When testing an 6 seconds of arc. tested gyroscope are mounted on the turntable. integrating gyroscope for drift and for operation under conditions of space integrating, only one gyroscope instrument is mounted on the table. The axis of rotation of the gyroscope frame is known as the output axis of the instrument. An axis at right angles to the output axis is the input or measuring axis of the instrument. The floating gyroscope must be so mounted on the turntable that its input axis is parallel to the turntable axis. The deviation of the gyroscope figure axis from an axis perpendicular to the input and output axes is the measured quantity which is sensed by a transmitter giving an electrical signal voltage proportional to this deviation angle. This voltage is fed to the control winding of Another coil, the control coil, serves to impose on the gyroscope a torque about the output axis. the turntable drive motor. Card 2/5

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Testing of floating gyroscopes

In operation, the rig must ensure the rotation of the turntable in inertial space about the input axis of the gyroscope at an arbitrary constant absolute angular velocity between a small fraction of the daily rotation of the earth and a value of 20 radians per second. accomplished by imposing a torque about the output axis. shown that this method fulfils the requirements just stated. equations of motion of the turntable about the input axis are formulated after considering the equations of the separate elements of the rig, namely the floating integrating gyroscope, These equations are the amplifier and the motor with turntable. The steadydiscussed in the stationary and transient conditions. state condition is considered for the two cases of energized and considered for an instantaneous input of a constant current to the non-energized control coil. Plotting the relative angular velocity of the turntable against time, after an initial starting delay and a nearly linear accelerating period, an aperiodic settling down is found in a typical case. Card 3/5

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Testing of floating gyroscopes

induction motor (with an increased rotor resistance) of multi-pole construction in order to reduce its time constant. It is shown how the starting delay can be reduced to zero by a suitable choice of design parameters. The effects of the friction torque in the bearings of the floating gyroscope and of several disturbing torques (such as those due to an unbalance of the floating gyroscope, the reactive torques of the measuring and control coils, and the slip ring torque of the gyroscope motor) are examined. Thes effects change the steady-state angular velocity of the turnt. 'a, Some advantages can be gained by using a speed Instructions are given reducing earbox in the turntable drive. on of the design parameters for the test rig. on the a used for testing of integrating and turntabic Integrating gyroscopes are loating gyroscopes. differentia tested for drift, in operation under conditions of space integration, in operation under conditions of geometric stabilization and for the determination of the time constant, order to test the gyroscope under conditions of geometric stabilization, the basic test rig must be provided with another The tested gyroscope is turntable mounted on the basic turntable. Card 4/5

26538 S/536/59/000/040/001/005 E191/E481

Testing of floating gyroscopes

place on the additional turntable. Testing for drift is discussed in detail. The Sperry turntable rig is illustrated and In this installation, the axis of rotation of the discussed. turntable can be set at different angles to the vertical. Several variants of drift tests are examined which differ in the position of the gyroscope input and output axes against the vertical. B.V.Bulgakov is mentioned in the paper. 13 figures and 3 references: 1 Soviet and 2 non-Soviet. references to English language publications read as follows: C.S.Draper, W.Wrigley and L.R.Grohe. Aeronautical Engineering Review, 1956; Aviation Week, 12/III/1956. Aviation Week, 10/71, 1957, p.84

Card 5/5

SLOWYARBKIY, Grigoriy Aleksandrovich

Floating Gyroscores and their Applications (by) G.A. Slomyanskiy (1) Yu. M.

Pryadilov. Wright-Patterson Air Force B se, Ohio, 1960.
332 p. illus., diagrs., graphs, tables (f-TS-9910/V)

Translated from the original Ressian: Poplavkovyye Giroskopy i Ikh Primeneniye,

Moscow, 1958.

IDLIN, Mikhmil Markovich; SAFONOV, Nikolay Danilovich; BOSTORIN, V.I., detp. .t, inzh., retsenzent; SLOMYANSKIY, G.A., detsent, kani. tekhn.nauk, red.; TUBYANSKAYA, F.G., izd.red.; PJKHLIKOVA, N.A., tekhn.red.

[Fundamentals of the assembly, adjustment and inspection of aeronautical gyroscopic instruments] Osnovy sborki, regulirovki i kontrolia aviatsionnykh elektrogiroskopicheskikh priborov. Pod red. G.A.Slomianskogo. Moskva, Gos.nauchno-tekhn.izd-vo Oborongiz, 1960. 354 p.

(Aeronautical instruments)

24539

5/179/61/000/002/004/017 E061/E135

Slomyanskiy, G.A. (Moscow)

AUTHOR: TITLE:

A Calculation of the factors affecting the accuracy of

the determination of the drift of floating

integrating gyroscopes

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1961, No.2,

The paper considers methods of testing gyroscopes for drift, in which the gyroscope is mounted on a platform, which is driven by a servomotor, the motor being energized through an amplifier by the output signal of the gyroscope. The dynamical equations of the system are derived, assuming that the gyroscope is subjected to an error couple with a constant and a variable component and taking account of constant and variable errors in the amplifier and backlash in the platform drive. The solution of the dynamical equations gives the relation between the angle of rotation of the platform and the drift velocity of the gyroscope, in terms of the system parameters, the component of the earth velocity parallel to the input axis of the gyroscope, and the error Card 1/3

24539

A calculation of the factors

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components, It is shown that for minimum error effects the time constant of the system should be minimum. The above relation is analyzed for the case in which the platform angle is measured at two successive instants and the drift velocity measured from the difference between the two measurements. A relation is derived between the minimum time interval between the measurements, the required accuracy of determination of the drift velocity and the system errors. The accuracy of the determination of the drift velocity is affected by errors in the determination of the component of the angular velocity of the earth parallel to the input axis of the gyroscope. It is essential that the accuracy of the determination of the component be greater than the required accuracy of measurement of the drift velocity. in the determination of the component are tabulated, for various typical positions of the gyroscope and test platform with respect to the earth. It is shown that the errors are least when the gyroscope input axis is parallel to the axis of rotation of the

There are 2 figures, 1 table and the following English reference: Card 2/3

24539

A calculation of the factors S/179/61/000/002/004/017 E063/E135

Ref.1: C.S. Draper, W. Wrigley, L.R. Grohe. The floating gyro and its application to geometrical stabilization problems on moving bases.

Aeronaut. Engng. Rev., 1956, V.15, No.6.

SUBMITTED: December 26, 1960

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Card 3/3

S/536/61/000/052/001/008
Certain problems in the history ... D201/D302

this design were given by L.Ye. Andreyeva, in 1952. Bi-metal temperature compensating devices of the second kind were suggested for aeronautical instrument applications by G.O. Fridlender in 1929. Further developments in this field are due to N.Ya. Vovchenko and A.P. Yurkevich (1959). Of special interest are works by N.Ye. Zhukovskiy, N.P. Petrov and S.A. Chaplygin related to the problems related to the bearing friction and frictionless bearing design. The work of D.Yu. Panov has established for the first time the relationship between the bi-metal theory with some general assumptions of the theory of elasticity. Now the trends in the development of aviation instrumentation are as follows: Perfectioning of automatic flight and power plant control systems; integrated combined navigational systems with visual indicators; improvements in the accuracy and reliability of instrumentation, reduction of weight and their dimensions. New components and sensing elements are now being developed.

Card 2/2

SLOMYANSKIY, G.A.:

SCIENTIFIC-TECHNICAL CONFERENCE ON MODERN GYROSCOPE TECH-NOLOGY (USSR)

Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 6, no. 2, 1963,

The Fourth Conference on Gyroscope Technology, sponsored by the Ministry of Higher and Secondary Special Education RSFSR, was held at the Leningrad 156-158. Institute of Precision Mechanics and Optics from 20 to 24 November 1962. The conference was attended by representatives from 93 organizations in 30 Soviet cities, including educational establishments, scientific research institutes, design bureaus, and industrial concerns. The following are some of the topics covered in the 92 papers presented and discussed at the conference. Vibrations of a gyroscope pendulum with a movable suspension in a nonuniform gravitational field: M, Z, Litvin-Sedoy, Senior Scientific Worker; improving dynamic characteristics of some gyro instruments and devices: A. V. Reprikov, Docent, Candidate of Technical Sciences; some problems of the dynamics of a gyroscope with an electric drive installed in a gymbol suspension: S. A. Card 1/3

AID Nr. 990-6 14 June

SCIENTIFIC-TECHNICAL CONFERENCE [Cont'd]

8/146/63/006/002/010/010

Kharlamov, Engineer; problems of the theory of the inertial method for measuring aircraft acceleration: I. I. Pomykayev, Docent, Candidate of Technical Sciences; determining the drift of a floated-type integrating gyroscope without the use of a dynamic stand; G. A. Slomyanskiy, Docent, Candidate of Technical Sciences; natural damping of nutational vibrations of a gyroscope: N. V. Gusev, Engineer; motion of a not quite symmetrical gyroscope pendulum with vertically movable support: A. N. Borisova, Aspirant; gyroscope-type inclinometer for surveying vertical freezing wells: V. A. Sinitsyn, Candidate of Technical Sciences; effect of joints between channels in triaxial gyro-stabilized platform: L. N. Slezkin, Engineer; theoretical proposal for the possible design of a generalized Slezkin, Engineer; theoretical proposal for the possible design of a generalized syro instrument: M. M. Bogdanovich, Docent, Candidate of Technical Sciences; gyro instrument: M. M. Bogdanovich, Docent, Candidate of Technical Sciences; problem of drift in a power-type triaxial gyro stabilizer: V. N. Karpov, Engineer; problem of modeling random disturbances in gyro systems: S. S. Shishman, Senior Engineer; method of noise functions for investigating a system subjected to random

Card 2/3

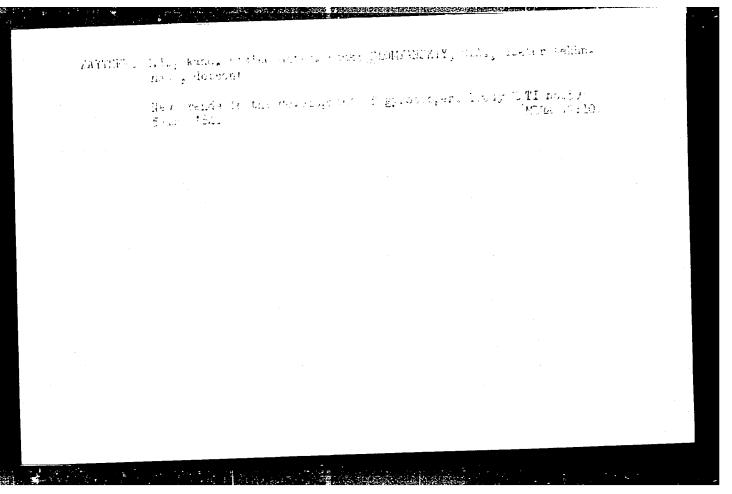
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SCIENTIFIC-TECHNICAL CONFERENCE [Cont'd]

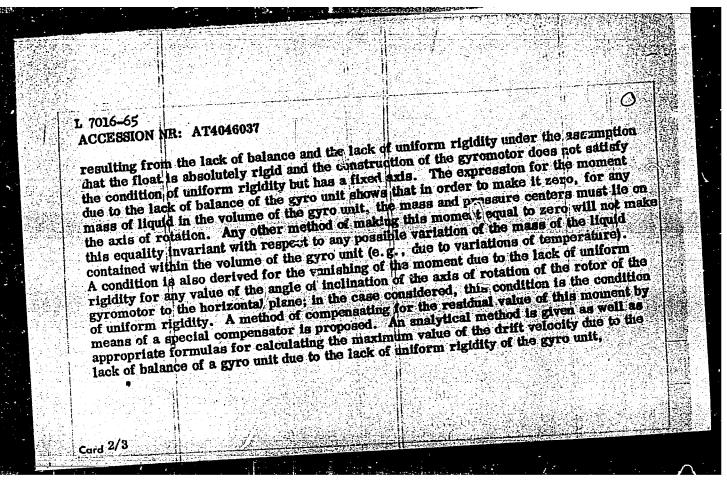
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signals: G. P. Molotkov, Docent, Candidate of Technical Sciences; drifts in a gyrostabilized platform as a result of the effect of cross joints under determined and random disturbances: B. I, Nazarov, Docent, Candidate of Technical Sciences; stability and natural oscillations in inhomogeneously rigid gyro systems with backlash under external influences: S. A. Chernikov; methods of designing a gyro vertical with automatic latitude and course corrections: A. V. Til', Candidate of Technical Sciences; use of asymptotic methods in solving problems of the motion of an astatic gyroscope in gymbol suspension: D. M. Klimov, Candidate of Physical and Mathematical Sciences, and L. N. Slezkin; theory of aperiodic gyro pendula: V. S. Mochalin, Docent, Candidate of Technical Sciences; and selecting basic parameters of course gyros by using nomograms: V. P. Demidenko, Engineer. [AS]

Card 3/3



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AUTHOR: Slomyansky, U.A. (2000) TITLE: Determination of the maximal values of gravitational drift and the drift due to un- equal rigidity of floating integrating gyroscopes equal rigidity of floating integrating gyroscopes	
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ABSTRACT: The moment of noise which acts on the gyro unit of a Hoating integral of a gyroscope consists, in the general case, of both moments which are independent of gyroscope consists, in the general case, of both moments which are independent of gyroscope consists, in the general case, of both moments which are independent of the first type belong moments acceleration and moments which depend on acceleration. To the first type belong moments acceleration statement of the fluid, as	
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SLONCHAK, A.T.; GISKINA, E.M.

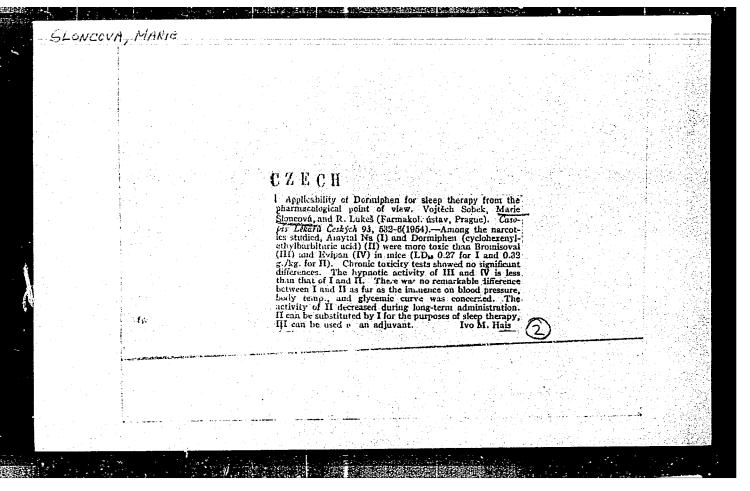
Results of prophylactic immunization of children against tuberculosis. Zdrav. Ros. Feder. 8 no.3:23-25 Mr*64

1. Detskoye otdeleniye (zav. - prof. K.P.Berkos) Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - kand. med. nauk T.P. Mochalova) i otdel organizatsii zdravookhranenimed. nauk T.P. Mochalova) i otdel organizatsii zdravookhranenimed. nauk T.D.Bogatyrev) Moskovskogo ya (rukovoditel' - doktor med. nauk I.D.Bogatyrev) Moskovskogo nauchno-issledovatel'skogo instituta gigiyeny imeni Brismana.

SOBEK, V.; SIONCOVA, M.

Pharmacology of perocillin. Cas. lek. cesk. 92 no.22:603-606 29 May 1953. (CIML 24:5)

1. Of the Institute of Pharmacology of Charles University, Prague.

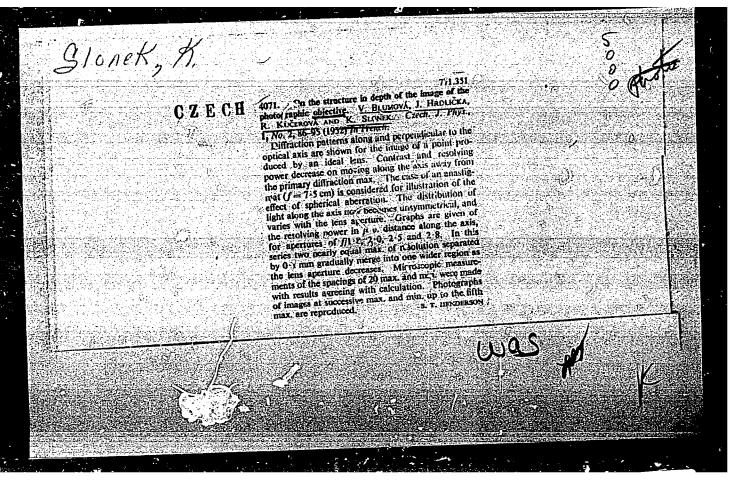


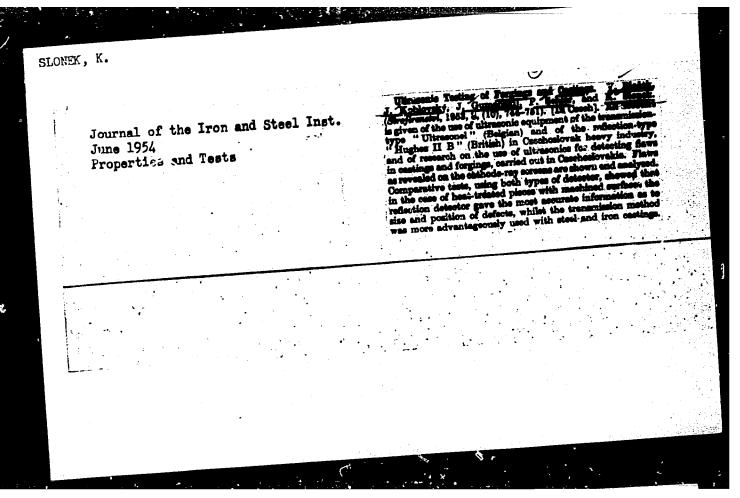
ROSNER, T.; WOJCIKIEWICZ, H.; SLONECKI, J.; JADLOWSKA, A.

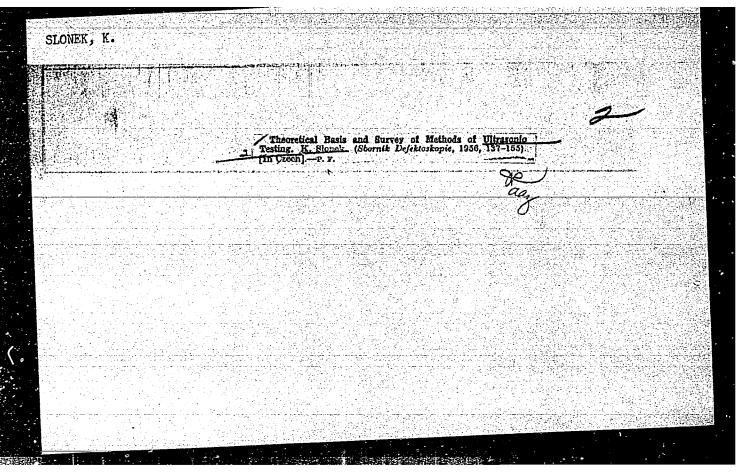
Studies on the stability and stabilization of spinning solutions obtained from polyvinyl alcohol. Polimery tworz wielk 9 no. 1:7-9 Ja '64.

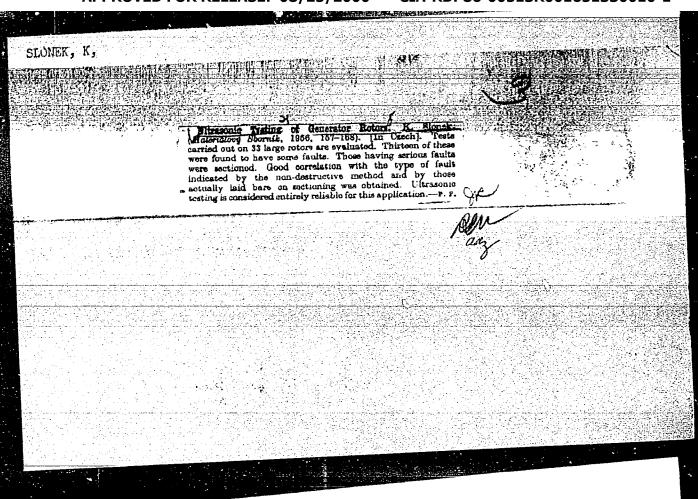
1. Department of Technology of Artificial Fibers, Technical University, Szczecin.

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CIA-RDP86-00513R001651330010-1" **APPROVED FOR RELEASE: 08/25/2000**

CZECHOSLOVAKIA/Acoustics - Ultresonics

Abs Jour: Ref Zhur - Fizika, No 9, 1958, No 21313

: Slonek Karl Author

: Tosts of Turbine end Generator Rotors by Means of Ultrasound Inst Title

Orig Pub: Hutnicke listy, 1958, 13, No 1, 33-37

Abstract: Description of control tests by the method of ultrasonic defectoscopy, cerried out on 53 rotors. Out of these eight rotors were checked by cutting, and the remainder by other methods. Verification has shown that the ultrasonic method is quite suitable for checking the solidity of material of forgings for turbine generators and rotors.

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AUTHOR: Slonek, Karel	
	for Materials and Technology, Prague (Statni vyzkumny
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OURCE: Jaderna energie, no.	
OURCE: Jaderna energie, no. COPIC TAGS: reactor fuel elementation	5, 1965, 180-181 ent, ultrasonic inspection, ultrasonic flaw detector, sults is described. Methods for flaw detection are
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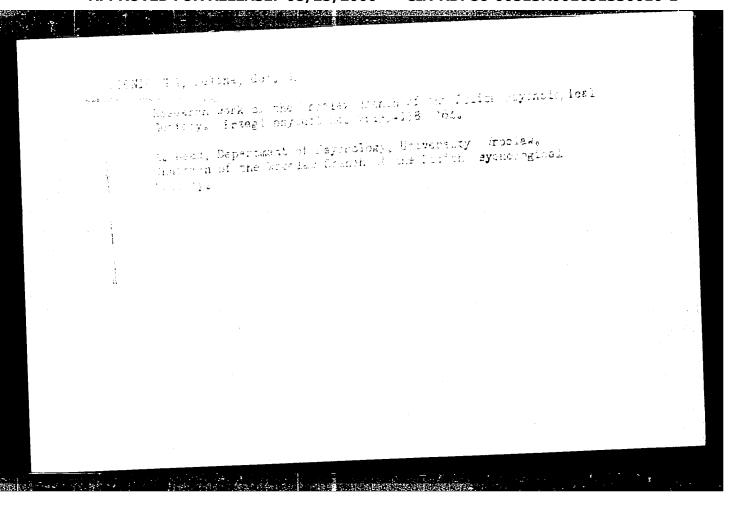
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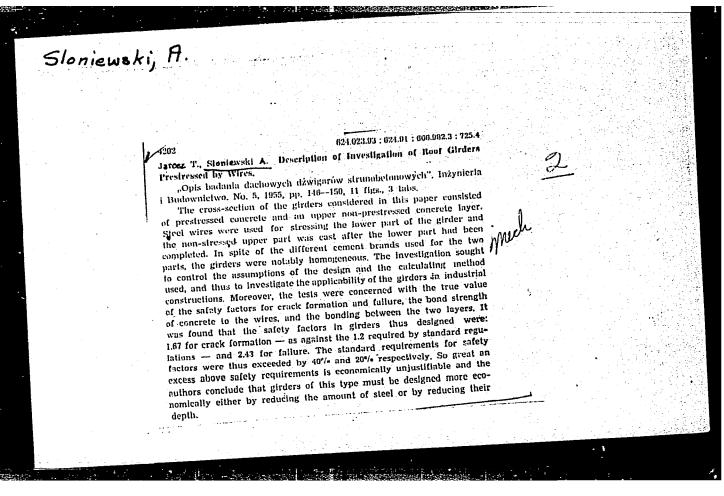
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