

DELE ENEVA, YO. O.

PHASE II

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 20 - II

BOOK

Call No.: QC 861.T85

ZVEREV, A. S., KIRYUKHIN, B. V., KONDRAT'YEV, K. Ya., SELEZNEVA, Ye. S., Authors:

TVERSKOY, P. N., YUDIN, M. I.

Full Title: COURSE OF METEOROLOGY (PHYSICS OF THE ATMOSPHERE) Transliterated Title: Kurs meteorologii (Fizika atmosfery)

Publishing Data

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Geophysical Observatory, 2) Prof. Khromov, S. P., who critically

analysed the manuscript.

Text Data

Coverage: A fundamental course in the physics of the atmosphere, covering its

properties, methods of investigation, application of thermodynamics, radiant energy, heat energy, water vapor, motion, weather and its

forecasting, atmospheric optics, electricity, and acoustics.

SELEZNEVA, Ye. S., GRABOVSKIY, R. I., and KONDRAT'YEV, K. Ya.

"Pavel Nikolayevich Tverskoy," Meteorol. i gidrologiya, No 1, 1953, pp 59-60

On the occasion of the 60th birthday of the well known Soviet meteorologist and geophysicist, Prof P. N. Tverskoy, Doctor of Physicomathematical Sciences and head of the Chair of the Physics of the Atmosphere in Leningrad University. (RZhGeol, No 5, 195%)

SO: Sum. No 368, 6 442 53

SKIKZNEVA, Ye.S., kandidat fiziko-matematicheskikh nauk

Conditions determining the number of cumulus clouds. Meteor.

Conditions determining the number of cumulus clouds. Meteor.i gidrol. no.2:8-14 F '53. (MIRA 8:9)

1. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova, Leningrad. (Clouds)

ZAVARINA, Mariya Vasil'yevna; SELEZNEVA, Ye.S., otvetstvennyy redaktor;
YASNOGORODSKAYA, M.M., redaktor; BRAYNINA, M.I., tekhnicheskiy
redaktor

[The atmosphere] Atmosfera. Leningrad, Gidrometeorologicheskoe
izd-vo, 1956. 127 p.

(Atmosphere)

SELEZNEVA YAS

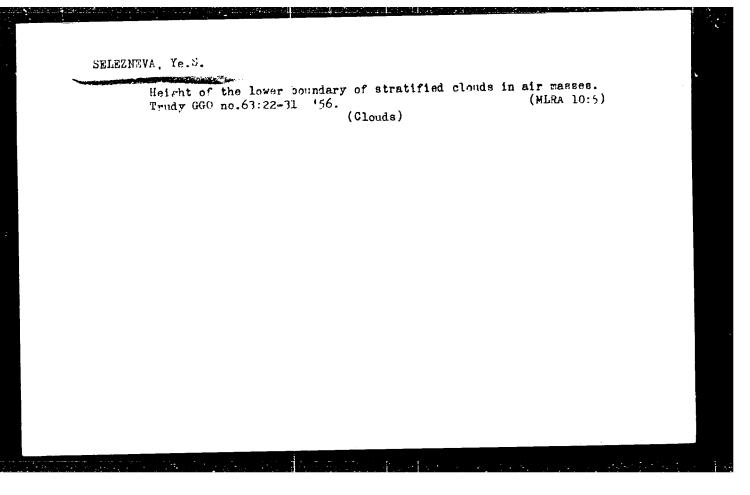
Aeroclimatological research conducted in the Main Geophysical Observatory. Trudy Tashk.geofiz.obser. no.11/12:5-9 156.

(MLRA 10:8)

1.Glavnaya Geofizicheskaya observatoriya.
(Climatology) (Meteorology)

SELEZNEVA, Ye.S.

First radiosonde. Trudy GGO no.56:7-18 '56. (MIRA 15:6) (Radisondes)



KHRGIAN, A.Kh.; BOROVIKOV, A.M.; DZERDZEYŁYSKIY, B.L.; DYUBYUK, A.F.;
ZVEREV, A.S.; ZOLOTAREV, M.A.; KRICHAK, O.G.; KLEMIN, I.A.;
PINUS, N.Z.; SKLEZNEYA, Ye.S.; YASHOGORODSKAYA, M.M., red.;
VLADIMIROV, O.G., telem.red.

[Cloud atlas] Atlas oblakov. Leningrad, Gidrometeor.izd-vo,
1957. 45 p. (MIRA 12:9)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

(Clouds)

SELEZNEVA, Yevgeniya Semenovna; TUDOROVSKAYA, Yelena Aleksandrovna; Kimpo; T.N., otv. red;; SOLOVEYCHIK, A.A., tekhn.red.

[P.A.Molchanov; eminent Soviet serologist] P.A.Molchanov vydaiushchiisia sovetskii aerolog. Leningrad, Gidrometeor. izd-vo, 1958. 101 p. (MIRA 12:2) (Molchanov, Pavel Aleksandrovich, 1893-1941) (Meteorology)

SELEZNEVA, Ye.S.

Origin of north winds occurring in the Sevan basin in summer.

Trudy GCO no.78:77-83 '58. (MIRA 11:12)

(Sevan region--Winds)

Selez Neva , 10 S.

PHASE I BOOK EXPLOITATION

sov/3789 **sov**/2**-M**-93

- Leningrad. Glavnaya geofizicheskaya observatoriya imeni A.I. Voyeykova
- Vaprosy fiziki atmosfery (Problems in Physics of the Atmosphere) Leningrad, Gidrometeoizdat, 1959. 113 p. (Series: Its: Trudy, vyp. 93) 1,200 copies printed.
- Sponsoring Agency: USSR. Sovet Ministrov. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.
- Ed. (Title page): Ye.S. Selezneva, Candidate of Physics and Mathematics; Ed. (Inside book): M.M. Yasnogorodskaya; Tech. Ed.: A.N. Sergeyev.
- PURPOSE: This publication is intended for specialists in mateorology, serology, and meteorological instrumentation.
- COVERAGE: This collection of twelve articles contains the results of studies done under the suspices of the Glavnaya geofizicheskaya observatoriya imeni A.I. Voyeykova (Main Geophysical Observatory imeni A.I. Voyeykov). The first six articles give the results of serological investigations of clouds, and the structure of anticyclones and local winds. The last six articles cover the

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Problems in Physics of the Atmosphere

BOV/3789

methods of aerological investigation of atmospheric ozone, aerosols, condensation muclei, and the chemical impurities in atmospheric precipitation. A description of new or improved instruments used in aerological investigations is also given. References are given at the end of some articles.

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Selezneva, Ye.S. The Borders and the Vertical Thickness of

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On the basis of data obtained by aircraft soundings in the area on the basis of data obtained by aircraft soundings in the area of Leningrad, Moscow and Kiyev, the author gives the characteristics of the altitude of the base and the vertical thickness of summer convection clouds. Peculiarities in the stratification of the atmosphere due to nomuniform vertical development of these clouds, and temperature conditions on the upper border of cumulanimbus and large cumulus clouds are also investigated.

Petrenchuk, O.P. Some Properties of Pressure Fields in Baric Formations

21.

With Elliptical Isobars

The author derives a formula for calculating the pressure changes in elliptical anticyclones resulting from a change in the curvature of the

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Problems in Physics of the Atmosphere

sov/3789

trajectory of particles. With the use of this formula a theoretical model of the pressure tendency field is computed. The theoretical model is compared with the actual pressure tendency field.

Vasil'chenko, I.V. The Problem of a Stationary Convective Current Different theories of several meteorologists concerning the problem of stationary convection current are analyzed. An attempt is made to arrive at a generally acceptable solution to this problem by solving a system of free convection equations, assuming that there is a power function relationship between the turbulence coefficient of the convective current and the altitude of the current source.

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Meshcherskaya, A.V. Some Data on Vertical Velocities Near Mountain Passes

37

The author evaluates the magnitude of downward air currents near mountain passes as well as the characteristic of a transitional zone between air currents moving in different directions.

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| Petrenchuk, O.P. Peculiarities of the Temperature Field in Anticyclones On the basis of statistical analysis, the author describes the distribution of the horizontal temperature contrast as well as the frequency of stable layers and inversions according to altitude and the stage of development of anticyclones. Dergach, A.L. Effect of Radiation Fog on the Development of Temperature Inversion The author analyzes some experimental data obtained by sounding the fog in the region of Dixon Island in 1956. The analysis leads to the conclusion that radiation inversions in the air layer near the ground are of a local character. Radiation fog, however, has a direct effect on the evolution of the inversion. Gushchin, G.P. Measuring the Ozone Content From Aircraft The author outlines the methods and describes the equipment used in measuring the general ozone content from an airplane. Measurements were made by the optical method using an ozonometer with filters. Results of the first eleven soundings in the Leningrad region in 1957-1958 are given. The data obtained are compared with ground measurements of ozone content made in the same region by means of a Dobson's spectrophotometer. | Problems in Physics of the Atmosphere SOV/3789 | |
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| Oergach, A.L. Effect of Radiation Fog on the Development of Temperature Inversion The author analyzes some experimental data obtained by sounding the fog in the region of Dixon Island in 1956. The analysis leads to the conclusion that radiation inversions in the air layer near the ground are of a local character. Radiation fog, however, has a direct effect on the evolution of the inversion. Gushchin, G.P. Measuring the Ozone Content From Aircraft The author outlines the methods and describes the equipment used in measuring the general ozone content from an airplane. Measurements were made by the optical method using an ozonometer with filters. Results of the first eleven soundings in the Leningrad region in 1957-1958 are given. The data obtained are compared with ground measurements of ozone content made in the same region by means of | Petrenchuk, O.P. Peculiarities of the Temperature Field in Anticyclones On the basis of statistical analysis, the author describes the distribution of the horizontal temperature contrast as well as the frequency of stable layers and inversions according to altitude and the stage of development of anticyclones. | 47 |
| The author analyzes some experimental data obtained by sounding the fog in the region of Dixon Island in 1956. The analysis leads to the conclusion that radiation inversions in the air layer near the ground are of a local character. Radiation fog, however, has a direct effect on the evolution of the inversion. Gushchin, G.P. Measuring the Ozone Content From Aircraft The author outlines the methods and describes the equipment used in measuring the general ozone content from an airplane. Measurements were made by the optical method using an ozonometer with filters. Results of the first eleven soundings in the Leningrad region in 1957-1958 are given. The data obtained are compared with ground measurements of ozone content made in the same region by means of | Dergach, A.L. Effect of Radiation Fog on the Development of Temperature | 56 |
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| Problems in Physics of the Atmosphere 80V/3789 | 70 | |
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| Myukhkyurya, V.I. Universal Electrophotometer A description is given of an electrophotometer used for the study of light propagation in the earth's atmosphere, light reflected by the moon and planets, and other radiation in the visible light zone. Some problems relative to operating the electrophotometer are discussed. The author proposes a simple method for checking the linearity of the optical characteristic of the photometer, and a new method for measuring the degree and the angle of light polarization. | 70 | |
| Aleksandrov, N.N., and O.P. Petrenchuk. Methods for Measuring the Condensation Nuclei in the Free Atmosphere by Aircraft Soundings The article describes the methods for measuring the condensation nuclei in the free atmosphere during the IGY. | 81. | |
| Zaydel', A.N., and Yu.I. Turkin. Analysis of Atmospheric Precipitation for Na, K, Ca, and Mg Content | 88 | |
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Problems in Physics of the Atmosphere

Korchigina, K.K., V.I. Myukhkyurya, and T.A. Smirnova.

Distribution of Brightness Over the Day and Night Sky

The authors give data on observations made during the summer of 1958 in Voyeykovo with an electrophotometer with a FEU-19 photomultiplier. A brief analysis of results is given.

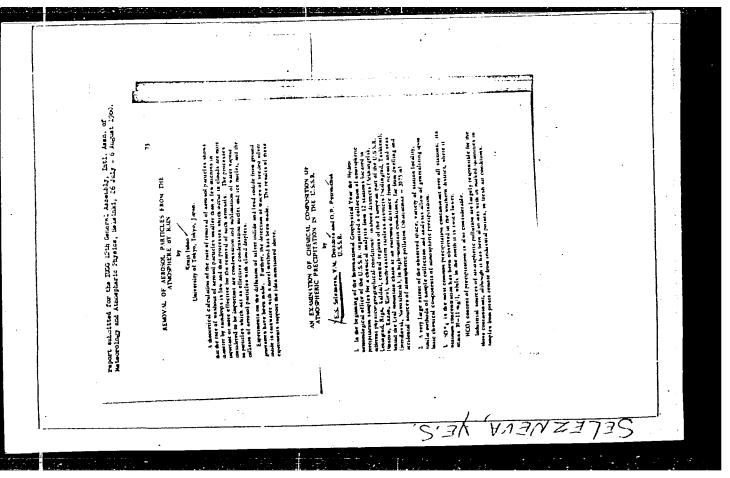
Gushchin, G.P. Basic Tables for Calculating the General Atmospheric Ozone Content by Optical Observations

The article contains the tables used by the ozonometric

AVAILABLE: Library of Congress

stations in the USSR.

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CIA-RDP86-00513R001547720007-8

PHASE I BOOK EXPLOITATION

SOV/4173 SOV/2-S-102

Leningrad. Glavnaya geofizicheskaya observatoriya

SE - F 2/15/A

Voprosy fiziki oblakov (Problems in the Physics of Clouds) Ieningrad, Gidrometeoizdat, 1960. 102 p. (Series: Its: Trudy, vyp. 102). Errata slip inserted. 1,150 copies printed.

Additional Sponsoring Agency: USSR. Glavnoye upravleniya gidrometeorologicheskoy sluzhby. Ed. (Title page): N. S. Shishkin, Doctor of Physics and Mathematics; Ed. (Inside book): V. S. Protopopov; Tech. Ed.: M. I. Braynina.

PURPOSE: The publication is intended for the scientific workers in meteorology and aerology, as well as for graduate students in these fields.

COVERACE: This is a collection of 6 articles published as No. 102 of the Transactions of the Main Geophysical Observatory imeni A. I. Voyeykov and dealing with the physics of clouds. Individual articles are concerned with convective clouds and their radar characteristics, the microstructure of supercooled clouds, radar characteristics of thunderstorms, and the problem of the optimum radio wave for detection of cloud systems and precipitation. References accompany each article.

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| Problems in the Physics of Clouds | sov/4173 | |
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| Nikandrova, G. T., and Yu. S. Fridman. On the Problem of Meting the Caracteristics of the Distribution of Droplet Sizes | | 58 |
| Kotov, N. F. Radar Characteristics of Cloudbursts and Thunde | rstorms | 63 |
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VORONTSOV, P.A.; MESHCHERSKAYA, A.V.; SELEZNEVA, Ye.S.; CHESTNAYA, I.I.;
AYNBUND, M.M.; KIRILLOVA, T.V.; NESINA, L.V.; OCHEVA, T.A.;
SEROVA, H.V.; TIMOFEYEV, M.P., kand.fiz.-mat.nauk; ZHDANOVA, L.P.,
red.; BRAYNINA, M.I., tekhn.red.

[Meteorological regime of Lake Sevan] Meteorologicheskii rezhim ozera Sevan. Pod red. M.P.Timofeeva. Leningrad, Gidrometeor. izd-vo. 1960. 310 p. (MIRA 14:3)

Leningrad. Glavnaya geofizicheskaya observatoriya.
 (Sevan Lake region--Meteorology)

VORONTSOV, Petr Alekseyevich; SELEZNEVA, Ye.S., otv.red.; YASNOGORODSKAYA, M.M., red.; BRAININA, M.I., tekhn.red.

[Aerological investigation of the boundary layer of the atmosphere]
Aerologicheskie issledovaniia pogranichnogo sloia atmosfery.
Leningrad, Gidrometeor.izd-vo. 1960. 450 p. (MIRA 13:5)
(Meteorology)

SELEZNEVA, Ye.S., otv. red.; GUSHCHIN, G.P., otv. red.; VLASOVA, Yu.V., red.; SERGEYEV, A.N., tekhn. red.

[Data on the chemical composition of atmospheric precipitation and total ozone content of the atmosphere at various points of the U.S.S.R.; materials of the International Geophysical Year and International Geophysical Cooperation for 1957-1959]Dannye po khimicheskomu sostavu atmosfernykh osadkov i obshchemu soderzhaniiu ozone v atmosfere v razlichnykh punktakh SSSR; materialy MGG i MGS za 1957-1959 gg. Leningrad, Gidrometeoizdat, 1961. 81 p. (MIRi 15:9)

1. Leningrad. Glavnaya geofizicheskaya observatoriya. (Precipitation(Metereology)) (Air—Analysis) (Ozone)

"APPROVED FOR RELEASE: 08/23/2000

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\$/169/62/000/011/019/077 D228/D307

Investigating the chemical composition of atmos-Selezneva, Ye.S. AUTHOR:

Referativnyy zhurnal, Geofizika, no. 11, 1962, 19, pheric precipitation TITLE:

abstract 113129 (Geofiz. byul., Mezhduved. geofiz.

kom-t pri Prezidiume AN SSSR, no. 11, 1962, 12-15) PERIODICAL:

During the IGY precipitation samples were gathered and analyzed at 13 stations on the Union's European territory, located in different physics degraphic and climatic environments. and analyzed at 13 stations on the union's European territory, Det-ted in different physico-geographic and climatic environments. and erminations were chiefly made of the amions SO/2 (1 NO/2 and ted in different physico-geographic and climatic environments. and erminations were chiefly made of the amions S042-, Gl-, N032-, and HCO32-; the cations Na⁺, K⁺, NH₄⁺, Ng²⁺, and Ca²⁺; the pH; and the conductivity. Charte of the average concentrations for the average conductivity. conductivity. Charts of the average concentrations for the year and for the cold and warm seasons were constructed with respect to each component.

also used.

The main precipitation components are sulfates and also used.

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Investigating the chemical ...

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chlorides. The latter are largely of marine origin, since their concentration comprises 2-3 mg/l on coasts and about 1 mg/l inland. In some continental areas, however, the concentration of Cl⁻ is considerable. Human activity appears to influence the sulfate content. A high content of SO_4^{2-} is noted in the Ukraine's industrial areas (> 10 mg/l); in other regions the content of SO_4^{2-} constitutes 2-3 mg/l. Of the cations Ca^{2+} has the highest concentration (1-4 mg/l). Abstracter's note: Complete translation 7

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SELEZNEVA, Ye.S.

Vertical distribution of condensation nuclei under different conditions of atmospheric stratification. Trudy GGO no.134:

(MIRA 15:6)
3-13 '62. (Atmospheric nucleation)

PETRENCHUK, O.P.; SELEZNEVA, Ye.S.

Variation in the concentration of principal chemical impurities
in precipitation as a function of meteorological conditions.

(MIRA 15:6)

Trudy GGO no.134:14-25 '62. (Precipitation (Meteorology))

TVERSKOY, Pavel Nikolayevich. Prinimal uchastiye KIRYUKHIN, B.V.; SELEZNEVA, Ye.S., red.; VLASOVA, Yu.V., red.; BRAYNINA, M.I., tekhn. red.; VOLKOV, N.V., tekhn. red.

[Course in meteorology; the physics of the atmosphere]Kurs meteorologii; fizika atmosfery. Pod red. E.S.Seleznevoi. Leninteorologii; fizika atmosfery. 669 p. (MIRA 16:2) grad, Gidrometeoizdat, 1962. 669 p. (Atmosphere)

ASD/AFFTC/ESD-3 s/169/63/000/004/005/017 EWT(1)/BDS L 12766-63 Drozdova, V. M., Petrenchuk, O. P., Selezneva, Ye. S. The chemical composition of atmospheric precipitation as de-AUTHOR: termined by investigations during the IGY and the International TITLE: Geophysical Cooperation Referativnyy zhurnal, Geofizika, no. 4, 1963, abstract 4B120 (Sb. materialy konferentsiy po itogam MGG (1960) i meteorol. izuch. Antaraktidy (1959). M. Gidrometeoizdat, 1961, 187-206) PERIODICAL: During the IGY samples of atmospheric precipitation were taken systematically at 13 meteorological stations located in maritime, continental, and high-altitude regions of the USSR then sent to Leningrad for analysis. A TEXT: total of 1,080 samples were analyzed; these included 246 summary monthly total of 1,080 samples were analyzed; these included 246 summary monthly samples and 834 individual samples. SON, Cl, NO3, HCO3 anions, Na⁺, K⁺, samples and 834 individual samples. SON, Cl, NO3, HCO3 anions, Na⁺, K⁺, samples and also the pH were determined in these analyses. Annual charts as well as sessonal charts were compiled for each component. The relative prevalence of anions in decreasing order was SO4 NO3; for high-altitude and Central Asian stations Card 1/3

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S/169/63/000/004/005/017

The chemical composition of atmospheric precipitation...

Na⁺ Ca⁺⁺ K⁺ Mg⁺⁺; and for continental stations Ca⁺⁺ Na⁺ K⁺ Mg⁺⁺. Differences in annual concentrations of SO₁ in precipitation were discovered in the charts: the concentration was minimal in the north and the northwest (3 mg/l), to the south it increased to 12 mg/l; the concentration was greater in the winter than in the summer. The Cl⁻ concentration was greater close to the sea and in the winter. The nitrogen concentration fluctuated on the average between 1 to 1.5 mg/l; the average annual pH value was 5.5 to 6.0 almost everywhere; some increase toward the south was noted in individual samples. The average amounts of these substances falling on one hectare in one year were calculated on the basis of these data. It was found that up to 10 - 15 kg/ha of sulfur fell in the south and 5 kg/ha in the north; Ca appeared in amounts of 15 - 20 kg/ha; Cl -- 5 to 7 kg/ha; nitrogen -- 3 to 5 kg/ha. The Cl⁻/Na and SO₄--/Cl⁻ ratios were also determined; it was found that the first ratio

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L 12766-63

s/169/63/000/004/005/017 The chemical composition of atmospheric precipitation...

was less than one for the entire European Part of the USSR, the second was equal to 2 at maritime stations and was larger inside the country. An analysis of all the data disclosed seasonal changes in the content of all admixtures in precipitation, the influence of continental sources for contamination of the atmosphere, and an increase in admixtures of marine origin in the maritime regions. There were 21 references.

Abstracter's note: Complete translation.

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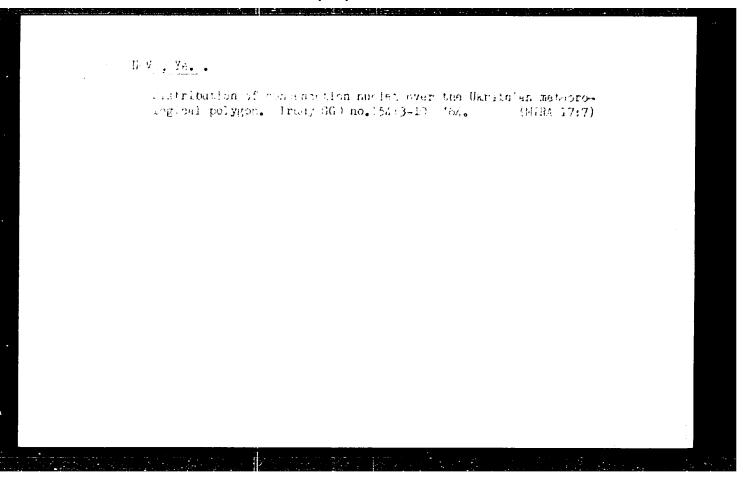
SELEZNEVA, Ye.S.

Spatial changes in the concentration of condensation nuclei according to data gathered in horizontal flights over the European territories of the U.S.S.R. Trudy GGO no.141:3-18 (MIRA 17:4)

DROZDOVA, Valentina Mikhaylovna; PETRENCHUK, Ol'ga Petrovna; ELEZNEVA, Yevgeniya Semenovna; SVISTOV, Petr Filippovich; h. TTANETS, Ye.P., red.

[Chemical composition of the atmospheric precipitation in the European territory of the U.S.S.R.] Khimicheskii sostav atmosfernykh osadkov na Evropeiskoi territorii SSSR. [By] V.M.Drozdova i dr. Leningrad, Gidrometeoizdat, 1964. 209 p. (MIRA 17:5)

1. Otdel aerologicheskikh issledovaniy Glavnoy geofizicheskoy observatorii (for all except Kapitanets).



SELEZNEVA, Ye. S.

"The main features of condensation nuclei concentration distribution in the free atmosphere over the European part of the USSR."

paper to be presented at Symp on Atmospheric Chemistry, Circulation & Aerosols, Visby, Sweden, 18-25 Aug 1965.

Main A.I. Volikov Geophysical Observatory, Leningrad.

ACC NR: AMO033081

(A)

Monograph

UR/

Selezneva, Yevgeniya Semenovna

Atmospheric aerosols; condensation nuclei (Atmosfernyye aerozoli; yadra kondensatsii)
Leningrad, Gidrometeoizdat, 1966. 173 p. illus., biblio., tables. 1200 copies
printed.

TOPIC TAGS: atmospheric physics, atmospheric aerosol, condensation nucleus, air pollution, atmospheric particle, air pollutant, meteorologic test area

PURPOSE AND COVERAGE: This monograph is intended for the use of scientists working in several branches of atmospheric physics and related disciplines. It discusses the results of investigations of minute aerosol particles (r ≤ 10-4 cm), the so-called ordinary condensation nuclei. Data obtained between 1958 and 1964 by several investigators using Sholz counters installed in aircraft flown over various regions of the USSR have been analyzed. The results reported in this book provide considerable information on the vertical and horizontal distribution over Soviet territory of condensation nuclei in the lower troposphere. V. Ya. Nikandrov and P. A. Vorontsov (Main Geophysical Observatory) supervised and supported the work; theoretical aspects were discussed with D. L. Laykhtman and M. T. Yudin.

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| SUB CODE: 04/ SUBM DATE | : 13Jun66/ ORIG REF: 077/ | OTH REF: 072/ |
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| Card 3/3 | • | |
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ZHIVOPISTSEV, V.P.; SELEZNEVA, Ye.A.; LIPCHINA, A.P.; BRAGINA, Z.I.

Antipyrine dyes as analytical reagents. Report No. 3: Photometric determination of zinc. Zhur. anal. khim. 21 no. 1:28-33 *66 (MIRA 19:1)

1. Fermskiy gosudarstvennyy universitet imeni Gor'kogo.

| ACC NRI AT6020804 (N) SOURCE CODE: UR/0000/65/000/000/0225/0232 | |
|---|---|
| AUTHOR: Selezov, I. T. (Kiev) | |
| ORG: none TITLE: The propagation of elastic waves along a cylindrical cavity filled with a | • |
| flowing fluid SOURCE: AN UkrSSR. Institut mekhaniki. Kontsentratsiya napryazheniy (Concentration of stresses), no. 1. Kiev, Naukova dumka, 1965, 225-232 | |
| TOPIC TAGS: wave propagation, magnetohydrodynamics, elastic wave, fluid mechanics, stress analysis | |
| ABSTRACT: A study is made involving the problem of magnetohydroclasticity in the prepagation of axially symmetric waves in an elastic body-flowing fluid system. If the elastic body of infinite extent contains a cylindrical cavity of circular cross section which is filled with a nonviscous compressible fluid in motion. Along the axis of the cavity there exists a uniform constant magnetic field, and the elastic body is assumed to be magnetically and electrically neutral. The conventional approach to this type of problem is one of seeking a solution through the use of Bessel functions; however, the author states a more exact definition of the problem | |
| Card 1/2 | |
| | |

leading to a study of generated hypergeometric equations (see G. Sul and L. Walker. Voprosy volnovodnogo rasprostraneniya elektromagnitnykh voln v girotropnykh sredakh, M., IL, 1955). Radial stress and deformation are derived and expressed in the form of dimensionless parameters. The dynamic aspects of the problem are expressed in the form of a dispersion equation which relates the phase velocity with wavelength. Dynamic relationships make use of Whittaker-MacDonald functions expressed in the form stated by N. N. Lebedev (Spetsial'nyye funktsii i ikh prilozheniya, M. Fizmatgis, 1963). A successive approximation method is applied to the finding of roots of the dynamic equation. Orig. art. has: 39 equations and 1 figure.

SUB CODE: 20, 13/

ACC NR: AT6020804

SUBM DATE: 110ct65/

ORIG REF: 006/

OTH REF : 005

Card 2/2

| L 36347-66 EWT(d)/EWT(1)/EWT(m)/EWP(k)/EWP(w)/EWP(v) IJP(e) EM/GW/WW ACC NR: AP6007808 SOURCE CODE: UR/0021/66/000/002/0179/0182 | ** |
|---|------------|
| AUTHORS: Selezov, I. T.; Lazarenko, M. A. | - |
| ORG: Institute of Cybernetics, AN URCR (Instytut Kibernetyky AN URSR) Institute of Goophysics, AN URSR (Instytut geofizyky AN URSR) | ; . |
| TITLE: Scattering and diffraction of elastic waves in a sphere placed in a half-space | |
| SOURCE: AN UKRRSR. Dopovidi, no. 2, 1966, 179-182 | |
| TOPIC TAGS: elastic wave, seismic wave, wave diffraction, wave scattering, seismic prospecting | |
| ABSTRACT: The diffraction and scattering of elastic waves on a rigid sphere placed in a half-space has been investigated. The solutions for the scattered field outside the sphere and frequent reflected fields were formulated by using the method of representation. The solutions | |
| were formulated by using the method of representation. The baser selected by S.1 presented can be used for seismic prospecting. The paper was presented by S.1 Subbotin, Member of Academy of Sciences, Ukrainian SSR. Orig. art. has 1 figure and 24 formulas. [Based on authors' abstract] [NT] | |
| SUB CODE: 20/ SUBM DATE: 10Sep64/ OTH REF: 003 | |
| Cord 1/1 // 5 | |

- 84 July - 1940-2014 - 192 8 14 17 18 1. 22 1. 1

S/124/61/000/010/052/056 D251/D301

AUTHOR:

Selezov, I.T.

TITLE:

The equations of motion of flexible plates

PERIODICAL:

Referativnyy zhurnal. Mekhanika, no. 10, 1961, 19, abstract 10 Vl28 (Prikl. mekhanika, 1959, 5, no. 4,

444-448)

TEXT: The result is given of the equations of free transverse oscillations of flexible flat rectangular plates, the effect of transverse forces and rotational inertia being considered. If terms dependent on the inertia of the displacements u and v in the plane of the plate are ignored, then it is possible to derive the stress function φ . The system obtained consists of two equations corresponding to the function of bending w and the stress function φ in stepped form with non-linear Karman equations for the rectangular plate. Similar equations are obtained for circular plates with axi-symmetric deformation. Abstracter's note: Complete translation

5/021/60/000/009/004/009 D210/D303

101510

Selezov, I.T.

AUTHOR:

TITLE:

On transverse vibrations of a plate Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 9,

PERIODICAL:

Using M.O. Kil'chevskyy's algorithm (Refs. 1 and 2: Prykl. TEXT: Using M.O. Kil'chevskyy's algorithm (Refs. 1 and 2: Prykl. matem. i mekh., 2, 427, 1939; 4, 83, 5, 73, 1940) the author promatem. i mekh., 2, 427, 1939; 4, 83, 5, 73, 1940) the dynamics of the matem. i mekh., 2, 427, 1939; 4, 83, 5, 73, 1940) the dynamics of the second investigates the general equations of the three-dimensional problem to plate. It enables the reduction of the three-dimensional problem. It is initiated by equations appeared by problem. It is initiated by equations appeared by the problem.

 $\mu \nabla^2 u_1 + (\lambda + \mu) \frac{\partial}{\partial x_1} \overline{i_j} + \rho X_1 = \rho \frac{\partial^2 u_1}{\partial f^2},$

 $\overline{\mu \nabla^2 u_2} + (\lambda + \mu) \frac{\partial \overline{u_1}}{\partial x_2} + \rho X_2 = \rho \frac{\partial^2 u_2}{\partial t^2},$ (č.)

 $\mu \nabla^2 u_3 + (\iota, + \mu) \frac{\partial}{\partial x_3} \tilde{\mathfrak{h}} + \mathfrak{h} X_3 = \mathfrak{h} \frac{\partial^2 u_3}{\partial t^2},$

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On transverse vibrations of a plate

with some initial conditions, where

$$\overline{\nabla}^2 = \nabla^2 + \frac{\partial^2}{\partial x_3^2}, \ \overline{\theta} = \theta + \frac{\partial u_3}{\partial x_3}, \ u_3 = w \tag{10}$$

and

$$\nabla^2 = \frac{3^2}{3x_1^2} + \frac{3^2}{3x_2^2}, \quad \Theta = \frac{3u_1}{3x_1} + \frac{3u_2}{3x_2}$$

and by assuming that

$$\theta = \sum_{k=0}^{\infty} \theta_k x_3^k, \quad w = \sum_{k=0}^{\infty} w_k x_3^k. \tag{11}$$

the following systems of equations were obtained

$$\sum_{i=1}^{n} \left\{ 2\left(\lambda + 2\mu\right) 2nh^{2n-1}w_{2n} + 2\lambda h^{2n-1}\theta_{2n-1} \right\} = q_1 - q_2, \tag{12}$$

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On transverse vibrations of a plate ...

$$\nabla^{2} w_{0} + \sum_{n=1}^{\infty} \{h^{2n} \nabla^{2} w_{2n} + (2n-1) h^{2n-2} \theta_{2,-1}\} = 0,$$

$$\left(\mu \nabla^{2} - \rho \frac{\partial^{2}}{\partial \bar{t}^{2}}\right) w_{2n} + (\lambda + 2\mu)(2n+1)(2n+2)w_{2n+2} + (\lambda + \mu)(2n+1)\beta_{2n+1} = 0,$$

$$n = 0, 1, 2, 3, \dots, (12)$$

$$(\lambda + \mu) 2n\nabla^2 w_{2n} + \left[(\lambda + 2\mu) \nabla^2 - \mu \frac{\partial^2}{\partial t^2} \right] t_{2n-1} + \mu 2n (2n+1) \theta_{2n+1} = 0,$$

$$n = 1, 2, 3, .$$

It contains all known equations of the dynamics of the plate. Detaining all terms up to and including (2h) one has

terms up to and include
$$\begin{cases} \frac{\partial^2}{\partial t^{*2}} + a_1 \nabla^2 \nabla^2 - a_2 \frac{\partial^2}{\partial t^{*2}} \nabla^2 + a_3 \frac{\partial^4}{\partial t^{*4}} - b_1 \nabla^2 \nabla^2 \nabla^2 + b_2 \frac{\partial^2}{\partial t^{*3}} \nabla^2 \nabla^2 - \\ -b_3 \frac{\partial^4}{\partial t^{*4}} \nabla^2 + b_4 \frac{\partial^4}{\partial t^{*4}} \end{aligned}$$
 \(\text{\$\psi^4\$}\) \(\psi^* = 0,\)

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On transverse vibrations of a plate ...

where

$$w^* = \frac{w_0}{2h}$$
, $(x_1^*, x_2^*) = \frac{1}{2h} (x_1, x_2)$, $t^* = \frac{c_s^t}{2h}$, $a^* = \frac{a}{\rho c_s^2}$

 $c^* = \frac{c}{c_s}$ - phase velocity, $\ell^* = \frac{\ell}{2h}$ - wave length, $c_s^2 = \frac{\mu}{\rho}$ and a_p , b_q

depends on Poisson's coefficient of Detaining all terms up to (2h)³ the equation was obtained which corresponded to the equation of Ya. 5. Uflyand (Ref. 8: Prykl. matem. i mekh. 12, 287, 1948)

Ref. 8: Prykl. matem. 1 month
$$\sqrt{\frac{3^2}{3t^{*2}}} + a_1 \sqrt{\frac{3^2}{2t^{*2}}} - a_2 \frac{3^2}{3t^{*2}} \sqrt{\frac{3^2}{2t^{*2}}} + a_3 \frac{3^4}{3t^{*4}}$$
 w* = 0.(15)

From these K could be determined by formula

$$k^{2} = \frac{2}{2 - \alpha + \sqrt{0.5 + \sigma^{2}}}.$$
 (16)

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On transverse vibrations of a plate ...

There are 1 figure and 8 references: 4 Soviet-bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: H. Laub, Prog. Royal. Soc. London, Ser. A, 93, 114, 1917; S.P. Timoshenko, Phil. Mag. ser. 6, 41, 744, 1921; R.D. Mindlin, J. Appl. Mech. 18, 131, 1951.

ASSOCIATION: Instytut budivel noyi mekahniky AN URSR (Institute of

Building Mechanics, AS UkrSSR)

PRESENTED: by Academician G.M. Savin, AS UkrSSR

SUBMITTED: Ocotber 30, 1959

K

Card 5/5

SELEZOV, I.T. (Kiyev)

Investigating lateral vibrations of a plate. Pryl.mekh. 6 no.3:319-327 '60. (MIRA 13:8)

1. Institut stroitel'noy mekhaniki AN USSR.
(Elastic plates and shells--Vibration)

S/081/61/000/021/059/094 B138/B101

AUTHORS:

Selezney, A. K., Prigornev, I. G.

TITLE:

Selection of reactors and conditions for the production of

Bchloro ethers from petroleum cracking olefins

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1961, 318, abstract 21L20 (Tr. Groznensk. neft. in-t, sb. 24, 1960, 45 - 51)

TEXT: Continuous coil reactors and an intermittent reactor of bubbling type have been tried out for the production of β chloroisopropyl ethyl ether (I) from cracking gas propylene. With coil reactors the optimum propylene: CL_2 : alcohol ratio is 2:1:5 and the volumetric rate of the

propylene is 7.8 liter/liter.min (yield of I 30 %). The best results in a tower reactor are obtained at a temperature of 2°C (yield of I 36 %). Coireactors have high capacity and are very suitable for commercial use. [Abstracter's note: Complete translation.]

Card 1/1

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S/198/61/007/005/010/015 D/274/D303

AUTHOR:

Selezov, I.T. (Kyyiv)

TITLE:

On the hypotheses underlying the more exact equations of transverse oscillations of plates; certain peculiar features of these equations

PERIODICAL:

Prykladna mekhanika, v. 7, no. 5, 1961, 538 - 545

TEXT: The generalized equations for transverse oscillations of

plates are

 $L_0 w_0 = L_1 (q_1 - q_2).$ (1.1)

The form of these operators and the notations adopted are given in an earlier work by the author (Ref. 5: Prykladna mekhanika, v. 6, no. 3, 1960). L_0 and L_1 were obtained by solving an infinite system of differential equations. If Eq. (1.1) is written in expanded form and only the terms of an order not higher than $(2h)^{2m-1}$ retained, then the more accurate equation for transverse oscillations, with an accuracy of $(2h)^{2m-1}$, is obtained:

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S/198/61/007/005/010/015 D/274/D303

AUTHOR:

Selezov, I.T. (Kyyiv)

TITLE:

On the hypotheses underlying the more exact equations of transverse oscillations of plates; certain peculiar features of these equations

PERIODICAL:

Prykladna mekhanika, v. 7, no. 5, 1961, 538 - 545

The generalized equations for transverse oscillations of

plates are

 $L_0 w_0 = L_1 (q_1 - q_2).$ (1.1)

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On the hypotheses underlying ...

$$\omega = \sum_{2n} \omega_{2n} x_3^{2n}, \qquad n = 0, 1, 2, \dots, m$$
 (1.4)

$$u_{v} = \sum_{2n-1} u_{v(2n-1)} x_{3}^{2n-1}, \quad n = 1, 2, 3, ..., m$$
 (1.5)

in the series for w and u, ($\nu=1$, 2), w and u denoting the transverse- and longitudinal displacements, and x_3 - a coordinate nor-

mal to the middle surface. From (1.4), (1.5) follows that w is given by parabola of degree 2m, and u - by a parabola of degree 2m-1. In Ref. 5 (Op.cit) it was shown that the retaining, in Lo, of the terms not higher than (2h)3, leads to an equation corresponding to Uflyand's equation which takes into account inertia of rotation and shear. To that equation corresponds m = 2:

$$w = w_0(x_1, x_2, t) + w_2(x_1, x_2, t) x_3^2 + w_4(x_1, x_2, t) x_3^4,$$
(1.6)

$$u_{y} = u_{y_1}(x_1, x_2, t) x_3 + u_{y_3}(x_1, x_2, t) x_3^3. \tag{1.7}$$

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On the hypotheses underlying ...

From (1.6), (1.7) it follows that the Uflyand-Timoshenko equations are based on more general assumptions as to the character of the deformation than those of Timoshenko's shear modes. The equation for transverse oscillations to an accuracy of $(2h)^5$, is based on Eqs. (1.4), (1.5) for m=3. The minimum velocity of the wavefront (the shear factor), corresponding to that equation, is shown in a graph. This graph shows that the equation with an accuracy of (2h) can be used for higher frequencies of asymmetric shear-oscillations than the equation with an accuracy of (2h)3. It is noted that by expanding the stress tensor into powers of 2h, instead of the displacement vector P. Epshteyn's (Petrashen's) equation is obtained instead of that of Uflyand-Timoshenko and Eq. (1.2). The solution of more accurate differential equation for the case of a beam subjected to a concentrated force is examined. An infinite strip, singled out from the plate, is loaded by the concentrated force $q_1^* - q_2^* = Fo_1(t^*)$, where o is the Heaviside function. The boundary conditions are set up, as well as the initial conditions. By Eq. (1.2) for m = 3, and with an accuracy of $(2h)^2$, one obtains:

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$$\left\{ \frac{\partial^{2}}{\partial t^{*2}} + a_{1} \frac{\partial^{4}}{\partial x_{1}^{*4}} - a_{2} \frac{\partial^{1}}{\partial t^{*2} \partial x_{1}^{*2}} + a_{3} \frac{\partial^{4}}{\partial t^{*4}} - b_{1} \frac{\partial^{4}}{\partial x_{1}^{*6}} + b_{2} \frac{\partial^{6}}{\partial t^{*2} \partial x_{1}^{*4}} - b_{3} \frac{\partial^{6}}{\partial t^{*2} \partial x_{1}^{*4}} - b_{4} \frac{\partial^{6}}{\partial t^{*3}} \right\} w_{0}^{*} = \left\{ 1 - d_{1} \frac{\partial^{2}}{\partial x_{1}^{*2}} + d_{2} \frac{\partial^{2}}{\partial t^{*2}} + d_{2} \frac{\partial^{2}}{\partial t^{*2}} + d_{3} \frac{\partial^{4}}{\partial t^{*2}} + d_{4} \frac{\partial^{4}}{\partial t^{*2}} - d_{4} \frac{\partial^{4}}{\partial t^{*2}} + d_{4} \frac{\partial^{4}}{\partial t^{*2}} \right\} (2.23)$$

 $+d_3 \frac{\partial^4}{\partial x_1^{*4}} - d_4 \frac{\partial^4}{\partial t^{*2} \partial x_1^{*2}} + d_5 \frac{\partial^4}{\partial t^{*4}} (q_1^* - q_2^*).$

The solution of this equation reduces to finding the functions

$$w^* = w_0^* + w_2^* x_3^{*2} + w_4^* x_3^{*4}$$
 (2.24)

$$u_1^* = u_{11}^* x_3^* + u_{13}^* x_3^{*3} + u_{15}^* x_3^{*5}.$$
 (2.25)

The functions on the right-hand sides can be expressed (by means of recursion formulas) in terms of the two functions w_0^* and u_{11}^* . The solution of (2.23) is expressed, in the space of Laplace transforms Card 5/9

On the hypotheses underlying ...

bу

$$W_o(x_1^*, p) = \chi F \sum_{s=1,2,3} \frac{B_s(p)}{pA(p)} e^{-n_s/x_1^*},$$
 (2.29)

where A and B are given by formulas involving n, and $n_{\rm g}$ is the solution of the characteristic equation. The solution can be expressed in the form of contour integrals

$$w_0^* = \sum_{s=1,2,3} w_{os}^*; w_{os}^*(x_1^*, t^*) = \frac{\chi_F}{2\pi i} \int_L \frac{B_s(p)}{pA(p)} \exp(pt^* - n_s/x_1^*)dp,$$
(2.31)

where L is the Riemann-Mellin contour. The approximate solution is obtained by expansion in series

$$\frac{n_{g}}{p} = g_{g}(0) + \frac{g_{g}'(0)}{1!} \frac{1}{p^{2}} + \frac{g_{g}''(0)}{2!} \frac{1}{p^{4}} + \cdots$$
 (2.32)

By (2.32):

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On the hypotheses underlying ...

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$$W_0(x_1^*, p) = \chi F \sum_{s=1, 2, 3} e^{-pg_s(0)} |x_1^*| \Phi_s(x_1^*, p), \qquad (2.33).$$

where

$$\Phi_{s}(x_{1}^{*}, p) = \frac{B_{s}(p)}{pA(p)} \exp \left[-|x_{1}^{*}| \sum_{s_{1}=1}^{\infty} \frac{g_{s}^{(s_{1})}(0)}{\eta!} \left(\frac{1}{p}\right)^{2s_{1}-1}\right]$$

From (2.33) follows

$$w_0^*(x_1^*, t^*) = \text{TF} \sum_{s=1,2,3} f_s(x_1^*, t^* - g_s(0)/x_1^*/),$$
 (2.34)

where $\mathbf{I}_s \longrightarrow \mathbf{f}_s$. Retaining the first term only, one obtains the solutions which holds for small \mathbf{t}^* , viz.

$$\frac{\chi_F}{v_1^!(v_3^2 - v_2^2) + v_2^!(v_1^2 - v_3^2) + v_3^4(v_2^2 - v_1^2)} - \frac{1}{5!} \left\{ \frac{v_3^2 - v_2^2}{v_1} (t^* - v_1 | x_1^*)^5 + \frac{v_1^2 - v_3^2}{v_2} (t^* - v_2 | x_1^*)^5 + \frac{v_2^2 - v_1^2}{v_3} (t^* - v_3 | x_1^*)^5 \right\}, \qquad (2.35)$$
Card 7/9:

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On the hypotheses underlying ...

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where $\frac{1}{858}$ (s = 1, 2, 3). For small t*, the displacement w*, found by Eq. (2.23) for x_1^* = +0, is of the order of t*5, whereas Uflyand's equation yields a displacement of order t*3, and the classical equation - of order t*3/2. Further, the solution which does not include the point of application of the concentrated force, is found. From the above follows that by solving the problem by Uflyand-Timoshenko's equations, the condition of smoothness of the bending function w in the neighborhood of the point of application of the force, cannot be satisfied. In this case an incompatible system of equations and boundary conditions is obtained. This applies also to the more exact Eq. (1.2), with any degree of accuracy (2h) $^{2m-1}$. There are 2 figures, and 12 references: 8 Sovietbloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: H.N. Abramson, H.J. Plass and E.A. Ripperger, Stress wave propagation in rods and beams, Advances in

Card 8/9

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On the hypotheses underlying ...

Applied Mechanics, v. 1958; A. Barr, Cross-section distortion and the Timoshenko beam equation, J. Appl. Mech. v. 26, ser. E, 1959, pp. 143-144; W. Flünge and E.E. Zajac, Bending impact waves in beams, Ing.-Arch., v. 28, 1959, 59-70; E.H. Kennard, The new approach to shell theory: circular cylinders, JAM, 20, no. 1, 1953.

ASSOCIATION: Instytut mekhaniky AN USSR (Institute of Mechanics AS UkrSSR)

SUBMITTED: March 9, 1961

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Card 9/9

CELEZOV, I. T.

Cand Phys-Math Sci - (diss) "Investigation of the propagation of elastic waves in plates and spheres." Kiev, 1961. 9 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SER, Kiev Order of Lenin Polytechnical Inst); 160 copies; trice not given; (KL, 5-61 sup, 174)

"APPROVED FOR RELEASE: 08/23/2000 CI

CIA-RDP86-00513R001547720007-8

ECROVSKIY, P. V. PHASE I BOOK EXPLOITATION SOV/6206 35

Konferentsiya po teorii plastin i obolochek, Kazan', 1950.

Trudy Konforentsii po teorii plastin i obolochek, 24-29 oktyabrya 1950. (Transactions of the Conference on the Theory of Plates and Shells Held in Kazan', 24 to 29 October 1960). Kazan', 1zd-vo Kazanskog osudarstvennogo universitetal 1961. 426 p. 1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Kazanskiy filial. Kazanskiy gosudarstvennyy universiteti im. V. I. Ul'yanova-Lenina.

Editorial Board: Kh. M. Mushtari, Editor; F. S. Isanbayeva, Secretary; N. A. Alumyae, V. V. Bolotin, A. S. Vol'mir, N. S. Ganiyev, A. L. Gol'donveyzen, N. A. Kil'chevskiy, M. S. Kornishin, A. I. Lur'ye, G. N. Savin, A. V. Sachenkov, T. V. Svirokiy, R. G. Surkin, and A. P. Filippov. Ed.: V. I. Aleksagin; Tech. Ed.: Yu. P. Semenov.

PURFOSE: The collection of articles is intended for scientists and engineers who are interested in the analysis of strength and stability of shells.

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Transactions of the Conference (Cont.)

SOV/6206

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COVERAGE: The book is a collection of articles delivered at the Conference on Plates and Shells held in Kazan' from 24 to 29 October 1960. The articles deal with the mathematical theory of plates and shells and its application to the solution, in both linear and nonlinear formulations, of problems of bending, static and dynamic stability, and vibration of regular and sandwich plates and shells of various shapes under various loadings in the elastic and plastic regions. Analysis is made of the behavior of plates and shells in fluids, and the effect of croep of the material is considered. A number of papers discuss problems associated with the development of effective mathematical methods for solving problems in the theory of shells. Some of the reports propose algorithms for the solution of problems with the aid of electronic computers. A total of one hundred reports and notes were presented and discussed during the conference. The reports are arranged alphabetically (Russian) by the author's name.

Card 12/14

| Selezov, I. T. Investigation of the Propagation of Elastic Waves in Plates and Shells | |
|--|-------------|
| | 347 |
| Slepov, B. I. Dynamic Stability of a Circular Cylindri- cal Shell Under Wave-Impact Loading | 3 53 |
| Sochinskiy, S. V., and V. S. Chuvikovskiy. On Nonlinear Dynamic Deformations of Rectangular Plates and Cylindrical Shells | 358 |
| Surkin, R. G., and L. A. Kuznetsova. On the Flexural Problem of a Shallow Square Spherical Panel With a Nonlinear Stress-Strain Relationship | 362 |
| Teregulov, I. G. On the Theory of Plates of Medium Thickness | 367 |
| Tkachuk, G. I. Integral-Differential Equations of the Theory of Thin Elastic Shells of Revolution | 376 |

SELEZOV, I.T. (Kiyev)

Hypotheses forming the basis of specified equations of lateral vibrations of plates and some characteristics of these equations. Prykl.mekh. 7 no.5:538-545 '61. (MIRA 14:10)

 Institut mekhaniki AN USSR. (Elastic plates and shells--Vibration)

KIL'CHEVSKIY, T.A. [Kil'chevs'kyi, M.O.]; SELFZOV, I.T.; NIKULINSKAYA, S.N. [Nikulins'ka, S.M.]; PAL'KO, L.S.

Water hammer in an elastic pipeline. Dop. AN URSR no.2:165-168 '62. (MIRA 15:2)

1. Institut mekhaniki AN USSR. 2. Chlen-korrespondent AN USSR (for Kil'chevskiy, N.A.).

(Water hammer)

S/198/62/008/005/008/009

S/198/62/008/005/008/009

AUTHOR: Botte, O. V.

TITLE: Dissertations defended in 1961 at the Institutes of the Division of Technical Sciences, AS UkrSSR, in the field of mechanics

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Instytut mekhaniky. Prikladna mekhanika, v.8, no. 5, 1962, 571-575

TEXT: The following dissertations were presented by the collaborators of the above acction and approved: For the degree of Candidate of Technical Sciences: Instytut mekhaniky (Institute of Mechanics): Vasyl' Kykolayovch Buyvol, Aspirant: 'Plane problems of the theory of clasticity for multiply-connected regions with cyclic symmetry', on March 16, 1961, at Dnipropetrovsk University Yaroslaw Kykhaylo-yich Hryhorenko, Junior Scientific Collaboratom, 'Strassed state of round plates and conical shells of linearly warying inckness that asymmetric loads', on April 6, as Dnipropetroval University. The Tymofiyovoh Selesov, Aspirant, 'Investitation of the propa-Cird 1/5

Dissertations defended in ...

3/198/62/008/005/008/009 D234/D308

gation of elastic waves in plates and shells', on June 19, at Kyyivs'kyy politekanichnyy instytut (Kiev Politechnic Institute),
problems of the theory of elasticity by the method of vector eigenfunctions', on Jeptember 26, at Kiev University. Mikhaylo Petrovych
tudinal vibrations in short rods of constant and variable thickbuytrivna Synyavs'ka, Junior Scientific Collaborator, 'Iransverse and longimess, due to impacts', on October 24, at Kiev University. Mariya
wear resistance of piston rings of integral combustion engines
avtomobil'no dorozhnyy instytut (Kiev Institute of Automobiles and
and deformability of Coll (DSP) plastics in time at increased temperatures', on November 28, at Kiev Institute of Automobiles and
elektrozvaryuvannya im. Ye. O. Patona (Institute of Electric Weldtific Collaborator, Candidate of Technical Sciences, 'Microscopic
Gard 2/3

5/198/62/008/005/008/009 D234/D308

Dissertations defended in ...

inhomogeneities in cast alloys', on May 16, at the Siberian sections of AS USSR. For the degree of Candidate of Technical Sciences: Instytut mashynoznavstva ta avtomatyky (Institute of Machine Science and Automation): Hryhoriy Semenovyen Kit, Junior Scientific Collaborator, 'Approximate solution of the problem of free torsion', on March 16, at Dnipropetrovsk University. Hryhoriy Vasyl'ovych Plyatsko, Junior Scientific Collaborator, 'Nonstationary problems of Neat conduction and thermoelasticity', on April 20, at the Institute of Mechanics of AS UkrSSR. Mykola Yuriyovych Shvayko, Aspirant, 'Some problems of elastoplastic torsion of prismatic rods', on December 25, at L'viv University. Instytut metalokeramiky i spetual'nyah splaviv (Institute of Metal Ceramics and SpecDal Alloys): Volodymyr Ivanovych Kovpak, Aspirant: 'Investigation of durable strength during programmed change of load and temperature', on October 23, at Kiev Polytechnic Institute.

Card 3/3

\$/879/62/000/000/038/088 D234/D308

Selezov, I. T. (Kiev)

TITLE:

Waves in cylindrical shells

SOURCE: . Teoriya plastin i obolochek; trudy II Vsesoyuznoy konferentsii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Izd-vo

AN USSR, 1962, 249-253

TEXT: The author deduces equations of hyperbolic type for axially symmetric vibrations of a cylindrical shell. The displacements are represented as series and terms of 4th and higher order in $2h/r_0$ are neglected. Dispersion curves are given. There are four possible types of waves. There is 1 figure.

Card 1/1

SELEZOV, I.T. (Kiyev)

Study of wave processes in a cylindrical shell based on the generalized theory. Prykh.mekh. 9 no.5:480-486 '63. (MIRA 16:10)

1. Institut mekhaniki AN UkrSSR.

ACCESSION NR: AP4012586

\$/0021/64/000/002/0185/0188

AUTHOR: Selezov, I. T.

TITLE: Reduction of the nonlinear problem of hydroelasticity to the solution of a system of linear differential equations

SOURCE: AN UkrRSR. Popovidi, no. 2, 1964, 185-188

TOPIC TAGS: flow, motion, hydroelasticity. Mach number

ABSTRACT: The dynamic interaction of a liquid with an elastic shell of arbitrary curvature is considered. The solution of the nonlinear problem of hydroelasticity is sought in the form of expansion according to a small parameter representing the Mach number in the case when the velocity of the liquid is lower than that of sound in the liquid. As a result the problem is reduced to a series of linear approximations. The first approximation is account while the following ones take into account the nonlinear hydrodynamic effects. Orig. art. has 25 formulas.

ASSOCIATION: Insty*tut Mekhaniky* AN UkrSSR (Institute of Mechanics, AN UkrSSR)

Card 1/2

L 52545-65 ENT(d)/ENT(1)/ENP(m)/ENT(m)/ENP(w)/ENA(d)/ENP(v)/ENP(k)/FCS(k)/ENA(h)/ EWA(1) Pd-1/Pf-4/Peb - W/EM/RM-ACCESSION NR: AP5010197 UR/0373/65/000/001/0173/017 AUTHORS: Selezov, I. T. (Kiev); Nikulinskaya, S. N. (Kiev) TITLE: Propagation of small disturbances in a fluid flowing in an elastic cylindrical shell SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 1, 1965, 173-175 TOPIC TAGS: fluid flow, elastic shell, compressible fluid, Laplace transformation ABSTRACT: The results of a theoretical study of the propagation of small disturbances in a fluid flowing through an elastic circular cylinder are presented. The fluid was assumed to be nonviscous and compressible, and he flow velocity was assumed to be small compared to the velocity of sound. An approximate solution was obtained for the problem, using the method of K. Lantsosh (Prakticheskiye metody prikladnogo analiza. Fizmatgiz, 1961). The hydroelastic equations for this problem are Card 1/4

L. 52545-65

ACCESSION NR: AP5010197 $\frac{\partial v^*}{\partial \tau} = -\frac{p_0}{\rho_0 v_F} \frac{\partial v^*}{\partial x^*} \\
\frac{\partial p^*}{\partial \tau} = -\frac{kv_0}{p_0 v_F} \frac{\partial v^*}{\partial x^*} \\
\frac{\partial p^*}{\partial \tau} = -\frac{kv_0}{p_0 v_F} \frac{\partial v^*}{\partial x^*} \\
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\frac{\partial v^*}{\partial v_F} = \frac{\partial v^*}{\partial v_F} \\$

L 52545-65-ACCESSION NR: AP5010197 Here r is the transformed variable, k, the root of the characteristic equation. C, and C, are obtained by cyclical permutation of the indices. Results are presented for a specific example of a material with a Poisson ratio of 0.3, ratio of the elastic modulus of water to that of the material 1/36, ratio of the density of the material to that of water 2.85, $\xi = 0.02$, 1* = 20, $P_0 = 98000$ n/m^2 , $\rho_o \approx 980 \text{ kg/m}^3$, $v_o = 0.1 \text{ m/sec}$, $c \approx 1410 \text{ m/sec}$. For this case the pressure at various points is given by $p^* (\tau. 1) = 0.1794 - 15.31 e^{-\tau} + 81.56 e^{-2\tau} - 185.6 e^{-3\tau} + 188.9 e^{-4\tau} - 70.63 e^{-6\tau}$ $p^* (\tau, 0, 9) = 0.2618 - 18.03 e^{-\tau} + 102.9 e^{-2\tau} - 247.1 e^{-3\tau} + 260.3 e^{-4\tau} - 98.27 e^{-6\tau}$ $p^* (\tau, 0.75) = 0.3422 - 10.63 e^{-\tau} + 46.25 e^{-2\tau} - 96.65 e^{-2\tau} + 98.58 e^{-4\tau} - 39.86 e^{-5\tau}$ $p^*(\tau, 0.5) = 0.4202 - 18.16 e^{-\tau} + 85.96 e^{-2\tau} - 156.2 e^{-3\tau} + 124.8 e^{-4\tau} - 36.76 e^{-5\tau}$ $p^* (\tau, 0.25) = 0.4637 - 18.52 e^{-\tau} + 108.9 e^{-2\tau} - 245.9 e^{-8\tau} + 241.1 e^{-4\tau} - 86.24 e^{-8\tau}$ The author thanks N. A. Kil'chevskiy for his constant interest in this work. Orig. art. has: 20 equations and I figure. Card 3/4

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001547720007-8

| L 52545-65 ACCESSION NR: AP5010197 | | O |
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|------------------------------------|--|---|--------------------------|-------------------------------------|------------|
| 9-7 | - т т. (Kiev) | | estic cylindric | 55 54 16 g 21 shell filled | |
| with liquid | tion of small perturbat | 그게 가지 않는 살이 하지 않기 | 발탁하게 하게 하고 있다. 독 | | To a |
| SOURCE: Prikla | dnaya mekhanika, v. 1, | no. 3, 1965, | 10-16 | | |
| | ell theory, cylindrical shell, acoustic wave, | | mbation theory | luid | |
| | propagation in cylindi | rical shells | TITTED ATOR THE | dro-elesticity | |
| for the shell-f equation in the | studied analytically. fluid system are written fluid and the fluid-s | n in cylindri olid boundary | cal coordinates | expressed by | The second |
| | $\frac{\partial^2 \varphi^{\bullet}}{\partial r^{\bullet \$}} + \frac{1}{r^{\bullet}} \frac{\partial \varphi^{\bullet}}{\partial r^{\bullet}}$ | $+\frac{\partial^2 \varphi^*}{\partial x^{*2}} = \frac{1}{G_*^{*2}} \frac{\partial^2 \varphi^*}{\partial x^{*2}}$ | ₩. ₩.: | | |
| | | = - dp* i | والمنافظ المالية المالية | | |

| . 52293-65 ACCESSION NR: AP5011585 | |
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| For small perturbations, the phase velocity and the wavelength are shown to be | |
| related by $c^{*0} - A_5 c^{*0} + A_1 c^{*0} - A_1 c^{*0} + A_0 +$ | |
| $J_{o}\left[\frac{2\pi}{4\pi}\sqrt{\left(\frac{c}{c}\right)^{2}-1}\right]$ | |
| $+\frac{\gamma_0}{20}e^{-\alpha}\frac{J_0\left[\frac{2\pi}{l^2}\sqrt{\left(\frac{c}{c_0}\right)^2-1}\right]}{\frac{2\pi}{l^2}\sqrt{\left(\frac{c}{c_0}\right)^2-1J_1\left[\frac{2\pi}{l^2}\sqrt{\left(\frac{c}{c_0}\right)^2-1}\right]}}\times$ | |
| $\begin{array}{c} (*) \left(c_{0} \right) \\ \times \frac{1}{4} \left(-B_{\mu}c^{*4} + B_{\mu}c^{*4} - B_{i}c^{*2} + B_{0} \right) = 0, \end{array}$ | |
| | |
| which is a solution of the above hydro-elastic equations. An asymptotic expansion of this solution for $\ell \to \infty$ leads to a quadratic expression in the velocity sion of this solution for $\ell \to \infty$ leads to a quadratic expression in the velocity of | |
| c, one of which describes the motion of the shell. The | |
| asymptotic limit $\ell \to 0$, leads to the equation | |
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| Card 2/3 | |

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| ACCESSION NR: AP5011585 | | |
| where c* = c* corresponds to | a wave, propagating perpendi | cularly to the shell |
| axis. It is shown that the f shell skin where waves propag fluid. Orig. art. has: 26 c | ate at higher speeds than th | e a displacement in the le speed of sound in the |
| ASSOCIATION: Institut mekhan | niki AN UkrSSR (Institute of | Mechanics, AN UkrSSR) |
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| | 요. 그 하는 이 경기 전환 전환 시간 시간 경기 전환 경기 전기 있다. | |
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L 02438-67 EWP(k)/EWP(h)/EWT(d)/EWT(m)/EWP(l)/EWP(w)/EWP(v) IJP(c) EM/WW .

ACC NR: AP6026744 SOURCE CODE: UR/0198/66/002/005/0096/0094

AUTHOR: Merkulov, V. I. (Kiev); Selezov, I. T. (Kiev)

ORG: Institute of Cybernetics, AN UkrSSR (Institut kibernetiki AN UkrSSR)

40 D

TITLE: Increasing the dynamic rigidity of an elastic structural element by means of $\frac{\text{automatic control}}{|V|}$

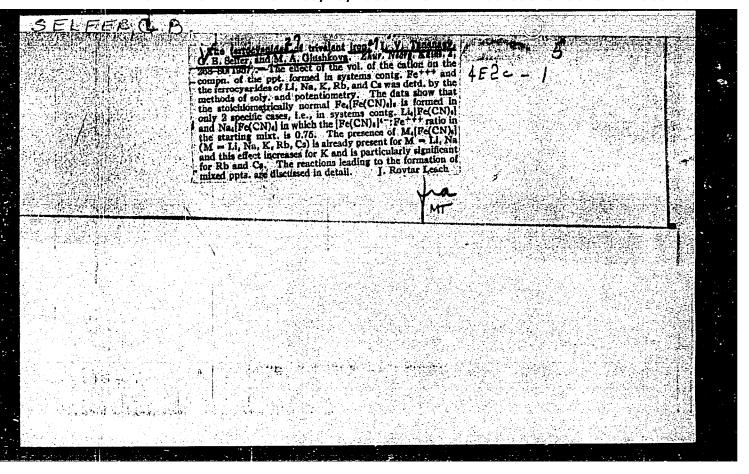
SOURCE: Prikladnaya mekhanika, v. 2, no. 5, 1966, 90-94

TOPIC TAGS: structure dynamic stability, dynamic stress, THIN SHELL STRUCTURE

ABSTRACT: While the rigidity of elastic structural elements increased by increasing the number of cross sections, the useful weight of the element is substantially decreased. A model consisting of a hinged beam in parametric resonance with a velocity transducer placed at the middle of the beam was analyzed. The purpose of the study was to find new means of increasing the rigidity of thin-walled constructions without any notable increase in their weight. By placing tie-rods connected with elastic memorate controlling moments on the membranes. Mathematical analysis showed that such a method may offer a possibility for improving the dynamic rigidity of a flying apparatus where the external aerodynamic forces would be generated by the deflection of automatically-controlled carrying surfaces. The restriction parameters for damping and

Card 1/2

| L 021;38-67 ACC NR: AP6026744 | | | | 0 | figures. |
|----------------------------------|--------------|-----------------|--------|---|----------|
| ttenuation of the vibrations are | e developed. | Orig. art. has: | 17 for | mulas, 2 | 11kmes. |
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SELFERT, J.

Nit diffication in forest soils. p. 1

(Transactions on mathematics and the natural sciences - Czechoslovak Academy of Science) Vol. 68, No. 3, 1958

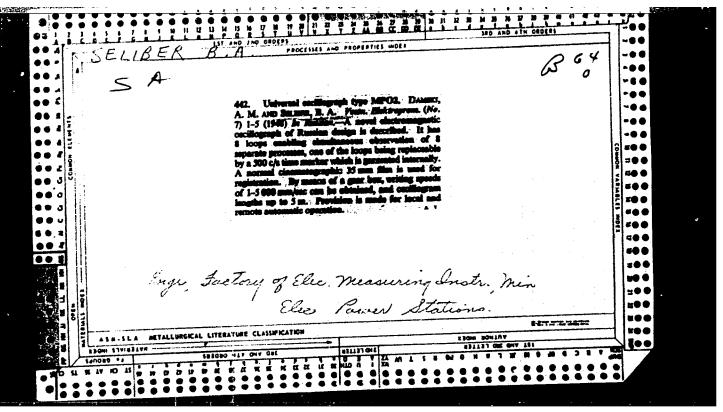
SO: Monthly Index of East European Accessions (EEAI) EC, Vol. 7, No. 5 May 1958

SELFERT, V., and others

"Apparatus for investigating composion in flowing liquids and highly aggressive media."

p. 986 (Institute of Applied Physics - Czechoslovak Academy of Science) Vol. 51, No. 5, May 1957

SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958



Seliber, B.A.

AID P - 1034

Subject

: USSR/Electricity

Card 1/1

Pub. 27 - 11/23

Authors

: Seliber, B. A., Eng. and Rabinovich, S. G., Eng., Leningrad

Title

: Semi-automatic d-c potentiometers

Periodical: Elektrichestvo, 11, 63-68, N 1954

= 22-212 Teen 12-777 754555

Abstract

: Possibilities of improvement of precision d-c potentiometers are discussed. A precise, laboratory type, universal semiautomatic potentiometer with a photo-compensation amplifier is described. Possibilities of further application of photocompensating amplifiers for precision potentiometers are examined. Five diagrams, 1 photograph, 4 references (1935,

1940, 1943 and 1953).

Institution: None

Submitted

: Ар б, 1954

Category : USSR/Radiophysics - Radio-wave Reception

I-7

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4586

Author : Seliber, B.A., Rabinovich, S.G.
Title : DC Photo-Compensation Amplifiers

Orig Pub: Avtomatika i telemekhanika, 1956, 17, No 8, 728-745

Abstract : The theory of photo-compensation amplifiers is considered. The basic

versions of the circuits are given. The errors of amplifiers and methods for eliminating such errors are investigated. The operation of a photocell is analyzed and recommendations are given concerning the choice of type and of operating mode. By may of illustration, a new photo-compensation automatic-recording amplifier with a sensitivity 2×10^{-0} v/mmis described. Ways of further application of photo-com-

pensation amplifiers are indicated.

Card : 1/1.

AUTHOR:

Seliber, B.A.

SOV-115-58-4-34/45

TITLE:

The Magneto-inductive Damping of High-Frequency Oscillograph. Vibrators (Magnitoinduktsionnoye uspokoyeniye vysokochastot-

nykh ostsillograficheskikh vibratorov)

PERIODICAL:

Izmeritel'naya tekhnika, 1958, Nr 4, pp 77-81 (USSR)

ABSTRACT:

The author demonstrates the extent to which the degree of damping affects the natural frequency range of an oscillograph vibrator. The defects of a liquid damping system in this respect are illustrated and contrasted to the advantages of the magneto-inductive method of damping. Some problems inherent in this system are discussed, and the characteristics of some actual oscillograph vibrators with magnetoinductive damping are given. The author advocates the general replacement of the liquid by the magneto-inductive damping method. There are 4 graphs, 5 diagrams, 1 table and 5 references, 2 of which are German and 3

Soviet.

1. Vibrographs--Performance

Card 1/1

S0V/115-59-7-18/33

9(3)

AUTHOR:

Seliber, B.A., Rabinovich, S.G., Mints, M.B.

TITLE:

Universal Direct-Current Percentage Bridges

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 7, pp 35-38 (USSR)

ABSTRACT:

The authors discuss theoretical aspects of a universal direct—current percentage bridge. Based on these considerations, they describe the R-19 percentage bridge disigned and manufactured at the plant "Vibrator". The bridge is designed for measuring resistances in the range of 1 ohm to 1 megohm and has 3 measuring ranges of percentage error ±0.25; ±2.5 and ±25%. The graduation value of the indicating instrument is 0.01, 0.1 and 1% accordingly. For routine engineering measurements, when an accuracy of 0.1-0.3% is adequate, an ordinary resistance box, for example, KMS-6, may be used in the comparison arm of the bridge. A somewhat simplified circuit diagram of the bridge is shown in fig.2, while fig.3 shows a photograph of the bridge. The overall dimensions are 410x300x 180mm. The weight is 12 kg. The power required from the network does not exceed 50 watts. There are 2 circuit diagrams, 1 photo - graph and & references, 3 of which are Soviet and 2 German.

Card 1/1

NESTERENKO, A.D., otv.red.; LEVIN, M.I., doktor tekhn.nauk, red.; ORNATSKIY, P.P., kand.tekhn.nauk, red.; PETROCHENKO, V.F., kand.tekhn.nauk, red.; GORODOVSKIY, A.F., inzh., red.; ZASLAVSKIY, S.Sh., inzh., red.; SELIBER, B.A., inzh., red.; KAZANTSEV, B.A., red.izd-va; YEFIMOVA, M.I., tekhn.red.

[Problems in the manufacture of general electrical instruments] Voprosy obshchego elektropriborostroeniia. Kiev. 1960. 262 p. (MIRA 13:6)

- 1. Akademiya nauk USSR, Kiyev. Institut elektrotekhniki.
- 2. Chlen-korrespondent AN USSR (for Nesterenko).
 (Electric instruments)

MINTS, M.B.; RABINOVICH, S.G.; SELIBER, B.A.; TKACHENKO, A.N.

Designing photoelectric compensation devices. Izm.tekh.
no.9:31-34 S '61.

(Photoelectric measurements)

MINTS, M. B.; RABINOVICH, S. G.; SELIBER, B. A.; TKACHENKO, A. N.

New set of photocompensation devices. Priborostroenie no.11:24-26
N '61.

(Photoelectric measurements)

SELIBER, B. A.

"The problem of improving coil instruments."

report submitted for the 3rd Intl. Measurement Conf & 6th Intl Instruments & Measurements Conf, Stockholm, 14-19 Sep 64.

"The problem of improving moving coil instruments."

report submitted for Intl Fed of Automatic Control & of Information Processing Conf, Stockholm, 21-23 Sep 64.

KULIKOVSKIY, Longin Frantsevich; MELIK-SHAKHNAZAROV, Aleksandr Mikhaylovich; RABINOVICH, Semen Girshevich; SELIBER, Boris Abelevich; MAMIKONOV, A.G., red.; BORUNOV, N.I., tekhn. red.

[Galvanometric compensators] Gal'vanometricheskie kompensatory. Moskva, Izd-vo "Energiia," 1964. 279 p. (MIRA 17:3)

| SELIBER, G. L. | DECEASED | 1964 |
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| Microbiology | | |
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SELIC, MICHEAG.

Gornji stroj Jugoslaverskih zeleznica. Osnavi gornjeg stroja. Beograd, Izd. Glavne direkcije Jugoslovenskih zeleznica, 1953. 572 p.

SO: FEAL, Vol. 5, No. 7 July 1956

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Madilmost tie of the Puture." (To be contd.) p. 161, (ZELEZME), Vol.
10, No. 5, Lay 1950, Beograd, Nu oslavia)
So: Nouthil List of East European Accessions, (LEAL), Ec, Vol. 3, No.
12, Dec. 1950, Uncl.
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rathroad thes of the figure. (C. Missima) p. 200. (Missimas, Vol. 10, no. 1, June, 195h, engrad, Ameshavia)

So: a withing the of Mast European Accessions, (Miss), Li, Vol. 4, no. 1

Jan. 1955, Uncl.

SELIC, M

SELIC, M. Characteristics of the ballast of modern tracks and track work. p. 289

Vol. 10, No. 8, Aug. 1954 ZELETNICE TECHNOLOGY Peograd

So: MONTHLY LIST OF EAST EUROFEAN ACCESSIONS, (FFAL), Vol. 4, No. 9, Sept. 1955

KURSHAKOV, N.A.; KIRILIAW, S.A.; SELTDOVKINA, A.A. (Moskva)

(ardiac contractions in hypertensive and rheumatic patients.

(MIRA 18:10)

1. Chlen-korrespondent AMN SDSR (for Kurshakov).