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25749
S/024/61/000/001/001/014
E194/E184

26.2120

AUTHOR: Fedorov, R.M. (Moscow)

TITLE: The Limits of Stable Operation of an Axial Compressor Stage

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1961, No. 1, pp.81-90

TEXT: Operation of an axial compressor stage may be associated with auto-oscillation in the system in which the stage operates or with a marked drop in the stage head when the air pressure decreases. The present article analyses the second of these cases which is most typical for stages with relatively short blades. In this case the appearance of instability is associated with rapid break-away of the flow from the stage blades if the angles of attack become too great. A characteristic curve of a typical stage of this kind is illustrated diagrammatically in Fig.1, in which $\bar{c}_{a\ max}$ corresponds to a value of the flow coefficient $\bar{c}_a = c_{1a}/u_k$, for which, because the air in the ducts between the blades has reached nearly sonic speed, further increase in the flow is impossible. When $\bar{c}_a \leqslant \bar{c}_{a\ max}$ until the

The Limits of Stable Operation of an Axial Compressor Stage

flow coefficient exceeds a certain critical value practically continuous flow is observed over the blades. The break-away occurs only near the back edges of the blades and is slight. On further throttling of the stage, on transition through $\bar{c}_a = \bar{c}_{a\,cp}$ (cp - average) the point of flow break-away is rapidly displaced along the upper surface of the profile forwards, causing a sharp drop in head and stage efficiency; this effect is sometimes termed static instability. As breakaway develops, axial symmetry of flow in the stage is usually disturbed and the breakaway zone occupies about half of the circumference of the stage blade rims. This zone rotates in the same direction as the runner but at lower angular speed. The next stage may continue to operate stably, point B in Fig.1, or auto-oscillation may be set up.
In experimental determination of stage parameters on the boundary of stability only the section corresponding to point A is observed, and the remaining parameters are found by extrapolation. Accordingly, in what follows it is assumed that all the stage parameters from the boundary of stability correspond to conditions

The Limits of Stable Operation of an Axial Compressor Stage

in which breakaway effects are only beginning to commence and axial symmetry of flow is still undisturbed. The main notation used in the presentation is shown in Fig.2. The general problem of calculating the position of the boundary of stability in the characteristics of a stage of known geometry and parameters may be sub-divided into two partial problems: (a) determination of $\bar{c}_{a\ min}$ and other corresponding stage parameters for some specially selected value of the referred peripheral velocity u_k; (b) calculation of the relative change of these parameters along the boundary of stability as u_k changes. The present article considers the second of these problems; that is, construction of the boundary of stability from one given point. Previous work by P.K. Kazandzhan has shown experimentally that in the centrifugal compressor of an aviation engine type AM-38 (AM-38) the angle of attack i on the boundary of stability $i_{max} = 19\text{-}21^{\circ}$, independently of the angle of installation of the guide vanes and the speed. If compressibility is neglected and i_{max} is constant the flow coefficient $\bar{c}_a$ should be constant along the boundary of

The Limits of Stable Operation of an Axial Compressor Stage

stability and the theoretical head $\bar{H}_T$ is also constant. However, at high peripheral speeds such as are found in axial compressors the effect of air compressibility becomes appreciable. Fig.3 shows a typical relationship between $\bar{c}_{a\ min}$ and the peripheral velocity for a subsonic stage with $d = 0.7$. The first of the three sections of this curve in which $\bar{c}_{a\ min}$ increases steadily with increase in u_k is the region of practical interest and accordingly the special features of flow over the blade profile of the runner for this region when u_k is equal to or less than u_{ko} is then considered. After further consideration the following approximate but sufficiently accurate equation is derived:

$$\frac{\lambda_{cp}}{\lambda_2} \leqslant 1.58 \left\{ 1 - \left[0.1 - 0.05 \left(\frac{\lambda_{cp}}{\lambda_2} \right)^2 \right] \lambda_2^{\,2} \right\} \qquad (3.4)$$

where λ is the velocity coefficient. This expression is solved relative to λ_{cp}/λ_2 to obtain the following values:

25749
S/024/61/000/001/001/014
E194/E184

The Limits of Stable Operation of an Axial Compressor Stage

λ_2 =	0.2	0.4	0.6
$\left(\frac{\lambda_{cp}}{\lambda_2}\right)_{max}$ =	1.58	1.59	1.60

The numerical values in this table are nominal; the important point is that the limiting value of the ratio is practically independent of λ_2. Thus, commencement of breakaway of the compressible flow from the upper surface of the profile when $u_k < u_{ko}$ corresponds to a certain limiting stage of retardation of the neighbouring flow, the value of which is practically independent of the M number. This criterion can be used to determine the conditions of breakaway in the runner; it could also be used for the guide vanes, but this is hardly ever necessary because breakaway can be prevented by altering the angles of installation. For the runner $\lambda_{cp}/\lambda_2 = w_{cp}/w_2$ where w is the relative speed of air and consequently, the condition of commencement of breakaway of flow in the runner at different

Card 5/11

25749
S/024/61/000/001/001/014
E194/E184

The Limits of Stable Operation of an Axial Compressor Stage

peripheral speeds should be in accordance with the condition

$$w_{cp}/w_2 = \text{const} \qquad (4.1)$$

In practice, this condition is difficult to use and it is more convenient to use the expression

$$w_1/w_2 \approx \text{const} \qquad (4.2)$$

where w_1 is the speed before the blading. In order to check the validity of this expression test results were worked out for a stage with relative hub diameter d = 0.7-0.875. The method of calculating w_1/w_2 is explained. Calculated stage parameters and values of the ratio $(w_1/w_2)_{max}$ for different values of u_k are tabulated and it is shown that the ratio $(w_1/w_2)_{max}$ has different values for different stages but it is practically constant for each stage. Thus the boundary of stability for stages with d approximately 0.7 and more when u_k is less than u_{ko} is determined by some limiting value of the ratio w_1/w_2.
Card 6/11

The Limits of Stable Operation of an Axial Compressor Stage

Expression (4.2) above also determines the change in flow coefficient of the stage $\bar{c}_{a\ min}$ along the boundary of stability and it is shown that when the angular velocity is reduced and γ_2/γ_1 falls, the angle of attack is increased. The following expression is derived from the equation of flow through the runner:

$$\frac{w_1}{w_2} = \frac{\sin \beta_2}{\sin \beta_1} \frac{\gamma_2}{\gamma_1} \frac{r_2}{r_1} \frac{h_2}{h_1} \qquad (4.6)$$

where

$$\beta_1 = \text{arc tg} \frac{\bar{c}_a}{r_1 - \bar{c}_a \operatorname{ctg} \alpha_1} \qquad (4.7)$$

It is shown that with axial inlet of air to the runner:

$$\frac{\bar{c}_{a\ min}}{\bar{c}_{a\ min\ 0}} = \frac{\text{tg } \beta_1}{(\text{tg}\beta_1)_0} = \bar{\gamma} \sqrt{\frac{(\text{cosec}^2 \beta_1)_0 - 1}{(\text{cosec}^2 \beta_1)_0 - \bar{\gamma}}} \qquad (5.2)$$

Card 7/ 11

The Limits of Stable Operation of an Axial Compressor Stage

By way of example, Fig.5 compares calculated values of $\tan \beta_1$ using formula (5.2) (solid lines) with experimental data on the boundary of stability for the twelvth axial stage with relative hub diameter $d \geqslant 0.7$ and $\alpha_1 = 60\text{-}90^\circ$, for which with $u_k = u_{ko}$ values of the angle β_1 are 25-35°. The different kinds of points on this figure correspond to different stages. The results show that changes in $\bar{c}_{a\ min}$ may be calculated from Eq. (5.2) with sufficient accuracy for practical purposes, the difference between theory and practice not exceeding 2%. Expression (4.2) above may also be used to determine changes in the power coefficient of the stage along the boundary of stability and the method of doing this is explained. It is concluded that expressions have been derived from which the boundary of stable operation may be constructed in the field of stage characteristics from one given point. The agreement between calculated and experimental results may be seen from Fig.7. In this diagram solid lines with round points correspond to experimental characteristics and triangles to calculated points for conditions $\bar{c}_{a\ min}$.

Card 8/ 11

25749
S/024/61/000/001/001/014
E194/E184

The Limits of Stable Operation of an Axial Compressor Stage

The agreement is considered good.
There are 7 figures, 1 table and 7 references: 6 Soviet and 1 English.
SUBMITTED: July 19, 1960

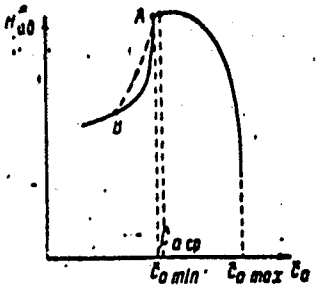

Fig. 1

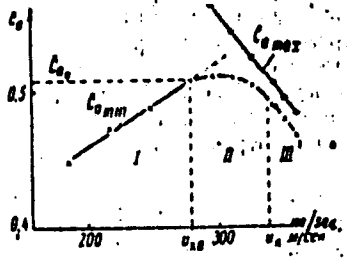

Fig. 3

Card 9/11

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ACC NR: AP5021896 UR/0281/65/000/004/0091/0097
621.515:533.601.13

AUTHOR: Fedorov, R. M. (Moscow)

TITLE: The limit of flow discontinuity in compressor grids

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 4, 1965, 91-97

TOPIC TAGS: angle of attack, boundary layer theory, axial compressor, compressor stage, diffuser flow, discontinuous flow, gas flow

ABSTRACT: The choice of parameters and the design of axial compressor stages are closely related to the determination of the critical angle of attack corresponding to the limit of disruptionless flow around compressor grids. Various researchers are trying to select the pertinent parameters and determine the discontinuity limits on the basis of the theory of the boundary layer. The present paper discusses, on the basis of the analysis of the disruption condition (for a typical velocity distribution over the upper surface of the profile), the approximate solution of the problem of determination of the limit of disruptionless flow around plane compressor grids of differing densities and staggers. It is shown that the degree of attenuation of the flow along the upper surface of the profile may serve as the quantitative criterion of the flow discontinuity. The results of the calculations are in very good agreement with experimental data concerning the flows through compressor grids at low M numbers of the incident current. Orig. art. has: 14 formulas and 4 figures.

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ACC NR: AP5021896

ASSOCIATION: None

SUBMITTED: 23Dec64 ENCL: 00 SUB CODE: ME

NO REF SOV: 003 OTHER: 004

Card 2/2

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Soviet Satellites and Cosmic Rocket, by S.O. Aleksandrov a nd R. Ye. Fedorov. Wright-Patterson Air Force Base, Techincal Information Center, 1960.

VI, 245 p. illus., diagrs., graphs, tables. (MCL-418/V)

Translated from the original Russian: Sovetskiye Sputniki I Kosmicheskaya Rakata, Moscow, 1959.

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29(0) PHASE I BOOK EXPLOITATION SOV/2189

Aleksandrov, S. G., and R. Ye. Fedorov

Sovetskiye sputniki i kosmicheskaya raketa (Soviet Sputniks and the Space Rocket) Moscow, Izd-vo AN SSSR, 1959. 231 p. (Series: Akademiya nauk SSSR. Nauchno-populyarnaya seriya) Errata slip inserted. 10,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Redkollegiya nauchno-populyarnoy literatury.

Eds.: V. I. Kravtsov, and T. K. Mikhaylov; Ed. of Publishing House: N. B. Prokof'yeva; Tech. Ed.: T. P. Polenova.

PURPOSE: This book is intended to acquaint the general reader with basic problems in the construction of artificial earth satellites and space rockets.

COVERAGE: Detailed information is given on the Soviet artificial satellites, on the results of scientific investigations performed with them and their significance in the solution of problems of interplanetary flight. The authors describe methods of scientific experimentation in the upper layers of the atmosphere and in cosmic space. In writing this book the authors used materials published

Card 1/9

in periodicals and in scientific and technical literature. The subject matter is presented in semitechnical form and does not present informational advances beyond similar data already publicized in Soviet and American publications. The mathematical tools necessary for explaining certain problems are given in the appendixes at the end of the book. In the preface the authors review Soviet scientific achievements in the field of space probes and give general data (weight, payload, time, distances, etc.) on the three sputniks and the space rocket launched toward the moon on January 2, 1959. These data have previously appeared in the periodical press. The authors glorify the Soviet communist government for the progress made by Soviet technology and ironically mention the unsuccessful American attempt to launch a moon probe. Chapter 1 gives the laws of motion of artificial satellites and describes satellites as bodies moving on an orbit around the Earth in accordance with the laws of celestial mechanics. Variation of velocity in an elliptical orbit and orbital elements are defined. Resistance of the upper atmosphere is said to cause secular variations in the shape of orbit. Ablateness of the earth's gravitational field causes perturbations of the orbit which are basically precessional motions of the orbit. Determination of projections of the satellite's track on the Earth are thoroughly discussed. Problems

of tracking-out satellites into orbit are of fundamental importance and are illustrated by means of basic motion equations of multistage probes. The relationship between parameters and number of stages, and the ratio of weights are presented. Major problems associated with interplanetary flights, satellite structure and instrumentation are discussed in this chapter including energy sources, sealing, meteorite hazards, cosmic rays, etc. Chapter 2 deals with methods of scientific investigation of the upper atmosphere and interplanetary space. Operation of scientific equipment installed in sputniks is covered. Measurement of pressure, density, temperature, and composition of the upper atmosphere are included in the discussion and the concentration of positive ions and other items shown in the table of contents are described. Sketches, diagrams, block diagrams and photos of instruments accompany the text. Chapter 3 describes the first, second, and third sputniks and their equipment. Some information on the radio transmitter "Mayak" installed in the third sputnik is given. The orbits of the sputniks and radio-optical observations are described. Photographs of the

following equipment are included:

1. Astronomical tube AT-1
2. Magnetic manometer
3. Ionization manometer
4. Apparatus for measuring positive ion concentration
5. Magnetometer
6. Electrostatic fluxmeter
7. Apparatus for registration of meteorite shock
8. Equipment for measuring cosmic ray intensity
9. Equipment for measuring the number of heavy nuclei in cosmic radiation
10. Apparatus for investigation of solar corpuscular radiation.

Chapter 4 reproduces in its entirety the material printed in "Pravda" on January 12, 1959 describing the Soviet cosmic multistage rocket launched toward the moon on January 2, 1959. There are 18 references: 10 Soviet, 6 translations into Russian, and 2 English.

TABLE OF CONTENTS:

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Sovetskiye sputniki i kosmicheskiye korabli (Soviet Satellites and Spaceships) 2d ed., enl. and rev. Moscow, Izd-vo AN SSSR, 1961. 439 p. (Series: Akademiya nauk SSSR. Nauchno-populyarnaya seriya) Errata slip inserted. 30,000 copies printed.

Resp. Eds.: V. I. Kravtsov and T. K. Mikhaylov; Ed. of Publishing House: N. B. Prokof'yeva; Tech. Eds.: T. P. Polenova and A. P. Guseva.

PURPOSE: This book is intended for the general reader interested in the achievements of Soviet science and technology in the realm of rocketry, artificial satellites, and space flight.

COVERAGE: The most important concepts and facts about space flight apparatus and problems of space flight are discussed. Methods for conducting scientific investigations of the upper atmosphere and in space and the results of these investigations are included. Material for the book was drawn from Pravda and from scientific and technical journals and periodicals.

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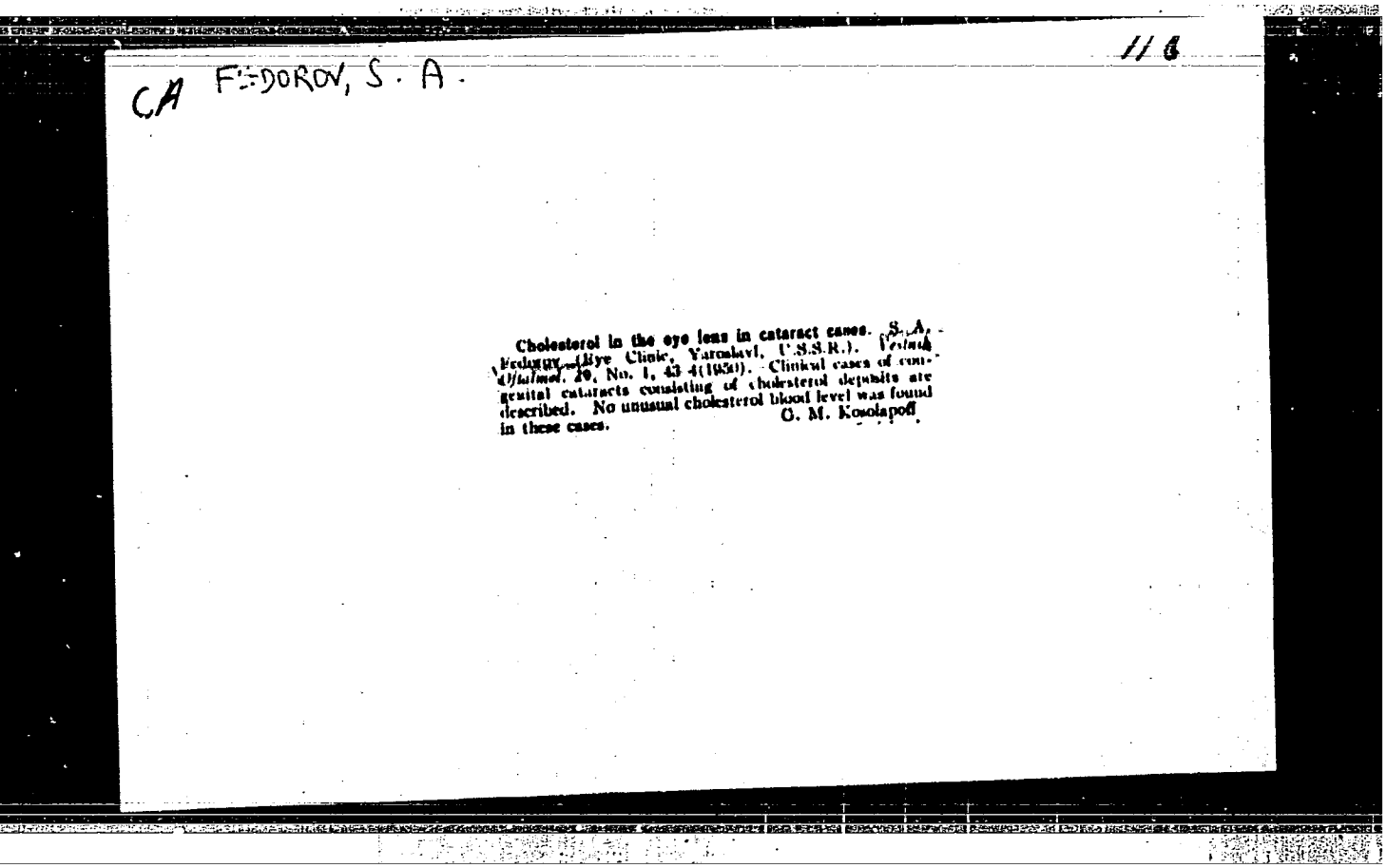

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(Prospecting--Geophysical methods)

FEDOROV, S.A.

ARASHKEVICH, V.M., dotsent, redaktor; VESELOV, A.M., professor, redaktor; VOLOTKOVSKIY, S.A., professor, redaktor; ZHUKOV, L.I., dotsent, redaktor; IPPOLITOV, N.D., dotsent, redaktor; KAMPANEYETS, V.P., dotsent, redaktor; KUTYUKHIN, P.I., dotsent, redaktor; MALAKHOV, A.Ye., professor, redaktor; NEUDACHIN, G.I., dotsent, redaktor; RYABUKHIN, G.Ye., professor, redaktor; SAKOVTSEV, G.P., dotsent, redaktor; STOYLOV, B.A., dotsent, redaktor; TROP, A.Ye., dotsent, redaktor; FEDOROV, S.A., professor, redaktor; YAROSH, A.Ya., dotsent, redaktor; SLAVOROSOV, A.Kh, redaktor izdatel'stva; ALADOVA, Ye.I., tekhnicheskiy redaktor

[Problems in the efficient organization of surveying in mining enterprises] Voprosy ratsionalizatsii markscheidarskoi sluzhby na gornykh predpriiatiiakh. Moskva, Ugletekhizdat, 1955. 128 p. (MLRA 9:10)

1. Sverdlovsk, Gornyy institut.
(Mine surveying)

ANDREYEV, Yevgeniy Timofeyevich; FEDOROV, Sergey Alekseyevich; SHKUTA, Eduard Ivanovich; SAUKHAT, I.G., redaktor; KELVNIK, V.P., redaktor izdatel'stva; ZEF, Ye.M., tekhnicheskiy redaktor

[Mine supports of slag brick] Kreplenie gornykh vyrabotok litymi shlakovymi kamniami. Sverdlovsk, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1957. 79 p. (MIRA 10:7)
(Mine timbering)

FEDOROV, S.A., inzhener.

Stoping with three-piece set timbering. Gor.zhur. no.2:9-12 F '57.
(MLRA 10:4)

1. TsNIIolovo.
(Mine timbering)

Fedorov, S.

KUDRYASHOV, P.I., dotsent, kandidat tekhnicheskikh nauk; FEDOROV, S.A., gornyy inzhener.

Analyzing errors in determining losses and depletion of ores. Gor. zhur. no.4:64-69 Ap '57. (MLRA 10:5)

1. Krivorozhskiy gornorudnyy institut (for Kudryashov) 2. TSentral'nyy nauchno-issledovatel'skiy institut olovo (for Fedorov).
(Ores--Sampling and estimation)

Fedorov, S. F.

ANDROS, I.P., inzh.; ASSONOV, V.A., kand. tekhn. nauk.; BERNSHTEYN, S.A., inzh.; BOKIY, B.V., prof.; BROVMAN, Ya.V., inzh. BONDARENKO, A.P., inzh.; BUCHNEV, V.K., kand. tekhn. nauk; VERESKUNOV, G.P., kand. tekhn. nauk; VOLKOV, A.F., inzh.; GELLERSKUL, M.N., kand. tekhn. nauk; GORODNICHEV, V.M., inzh.; DEMENT'YEV, A.Ya., inzh.; DOKUCHAYEV, M.M., inzh.; DUBNOV, L.V., kand. tekhn. nauk; YEPIFANTSEV, Yu.K., kand. tekhn. nauk.; YERASHKO, I.S., inzh.; ZHEDANOV, S.A., kand. tekhn. nauk; ZIL'BERBROD, A.F., inzh.; ZINCHENKO, E.M., inzh.; ZORI, A.S., inzh.; KAPLAN, L.B., inzh.; KATSAUROV, I.N., dots.; KITAYSKIY, E.V., inzh.; KRAVTSOV, Ye.P., inzh.; KRIVOROG, S.A., inzh.; KRINITSKIY, L.M., kand. tekhn. nayk; LITVIN, A.Z., inzh.; MALEVICH, N.A., kand. tekhn. nauk; MAN'KOVSKIY, G.I., doktor tekhn. nauk; MATKOVSKIY, A.L., inzh.; MINDELI, E.O., kand. tekhn. nauk; NAZAROV, P.P., kand. tekhn. nauk; NASONOV, I.D., kand. tekhn. nauk; NEYMENBURG, V.Ye., kand. tekhn. nauk; POKROVSKIY, G.I., prof., doktor tekhn. nauk; PROYAVKIN, E.T., kand. tekhn. nauk; ROZENBAUM, inzh.; ROSSI, B.D., kand. tekhn. nauk; SEMEVSKIY, V.N., doktor tekhn. nauk; SKIROLLO, O.B., inzh.; SUKHUT, A.A., inzh.; SUKHANOV, A.F., prof., doktor tekhn. nauk; TARANOV, P.Ya., kand. tekhn. nauk; TOKAROVSKIY, D.I., inzh.; THUPAK, N.G., prof., doktor tekhn. nauk; FEDOROV, S.A., prof., doktor tekhn. nauk; FEDYUKIN, V.A., inzh.; KHOKHLOVKIN, D.M., inzh.; KHRABROV, N.I., kand. tekhn. nauk; CHEKAREV, V.A., inzh.; CHERNAVKIN, N.N., inzh.; SHREYBER, B.P., kand. tekhn. nauk; EPOV, B.A., kand. tekhn. nauk; YAKUSHIN, N.P., kand. tekhn. nauk; YANCHUR, A.M., inzh.; YAKHONTOV, A.D., inzh.; POKROVSKIY, N.M., otvetstvennyy red.; KAPLUN, Ya.G. [deceased], red.; MONIN, G.I., red.; SAVITSKIY, V.T.,

(Continued on next card)

ANDROS, I.P.---(continued) Card 2.
red.; SANOVICH, P.O., red.; VOLOVICH, M.Z., inzh., red.; GORITSKIY, A.V., inzh., red.; POLUYANOV, V.A., inzh., red.; FADEYEV, E.I., inzh., red.; CHECHKOV, L.V., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.; NADEINSKAYA, A.A., tekhn. red.

[Mining; an encyclopaedic handbook] Gornoe delo; entsiklopedicheskii spravochnik, Glav. red. A.M. Terpigorev. Moskva, Gos. nauchno-tekhnicheskoe izd-vo lit-ry po ugol'noi promyshl. Vol.4 [Mining and timbering] Provedenie i kreplenie gornykh vyrabotok. Red-kollegiia toma: N.M.Pokrovskii... 1958. 464 p. (MIRA 11:7)

(Mine timbering) (Mining engineering)

FEDOROV, S.A., prof., dokter tekhn.nauk; SECHUKIN, A.S., kand.tekhn.nauk; ANDREYEV, Ye.T., kand.tekhn.nauk; GORBUNOV, B.F., starshiy prepodavatel'; SIMANOV, V.G., assistent; RYCHKOV, A.I., assistent; GILEV, B.M., assistent

Qualifications of a mine building engineer. Shakht stroi. 5 no.7:6-7 Jl '61. (MIRA 15:6)

1. Sverdlovskiy gornyy institut.
(Mining engineering)

FEDOROV, S.A., gornyy inzh.; BOVIN, A.A., gornyy inzh.; ZHIVOV, L.G., kand.tekhn.nauk (Moskva)

Discussion of the article by IA.B. Kal'nitskii and S.P. Vasil'evskii "Automation of stoping equipment in the mining industry". Gor. zhur. no.1:54-58 Ja '62. (MIRA 15:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut olovyannoy promyshlennosti, Novosibirsk (for Fedorov, Bovin).
(Mining machinery)
(Kal'nitskii, IA.B.) (Vasil'evskii, S.P.)

FEDOROV, S.A., prof.; ANDREYEV, Ye.T., dots.

New type of supports made of cast blast furnace slags. Izv. vys. ucheb. zav.; gor. zhur. no.1:57-64 '58. (MIRA 11:5)

1. Sverdlovskiy gornyy institut.
(Mine timbering) (Slag)

Fedorov, S.A.

BARENBLATT, G. I., Institute of Geology and Refining of Mineral Fuels, Academy of Sciences USSR - "Theory and laboratory modeling of fractured reservoir rocks with synthetic porosity" (Section IV)

BOBROV, Ivan V., Makeyevka Scientific Research Institute for Labor Safety in Mining Industries - "Study of gas outburst phenomena" (Section III)

BROD, Ignatiy O., Moscow State University im. M. V. Lomonosov, Head, Chair, Geology and Geochemistry of Combustible Minerals - "Methods of comparative estimation of oil and gas occurrence possibilities" (Section IV)

FEDOROV, Sergey A., Institute of Petroleum, Academy of Sciences USSR - "Soviet results in the field of shaft sinking" (Section III)

KASIMOV, A. F., Azerbaydzhan Polytechnic Institute - "Theoretical bases of sand flow into the wells and their application for oil production" (Section IV)

OSTROUSHKO, Ivan A., North Caucasus Institute of Mining and Metallurgy - "Methods of increasing the rate of boring holes for exploration and exploitation in hard rocks" (Section II)

PETUKHOV, I. M., Leningrad Mining Institute - "Utilization of rock pressure and the macrostructure of coal seams to facilitate mining" (Section I)

POPOV, G. N., Moscow Institute of Nonferrous Metals and Gold im. M. I. Kalinin - "Technical results obtained in the Soviet Union at the exploitation of bauxite deposits" (Section II)

TIKHONOV, N. V., Moscow Geological Prospecting Institute im. S. Ordzhonikidze - "Full mechanization of the driving of mine roadways and prospecting drifts in the Soviet Union" (Section I)

ZAPADINSKIY, Aron P. - "Determination of the variation of stresses originating in wall rock masses" (Section I)

REPORTS TO BE SUBMITTED FOR THE MINING CONGRESS, MINING AND METALLURGICAL SOCIETY, Budapest, Hungary, 12-15 Sep 1960

(2)

FEDOROV, Sergey Alekseyevich, doktor tekhn. nauk, prof.; POKROVSKIY, M.N., prof., retsenzent; MARSHAK, I.S., dotsent, retsenzent; ZVORYKINA, L.N., red. izd-va; SHMELEV, A.I., red. izd-va; SHKLYAR, S.Ya., tekhn. red.

[Sinking and deepening of vertical shafts by the standard method] Prokhodka i uglubka vertikal'nykh stvolov shakht (obychnym sposobom). 2.izd.perer.i dop. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 474 p. (MIRA 15:1)

1. Kafedra stroitel'stva gornykh predpriyatiy Moskovskogo gornogo instituta (for Pokrovskiy). 2. Dnepropetrovskiy gornyy institut (for Marshak). (Shaft sinking)

FEDOROV, Sergey Alekseyevich, prof., doktor tekhn. nauk; VEGNER, L.V., inzh., retsenzent; CHECHKOV, L.V., red. izd-va; MAKSIMOVA, V.V., tekhn. red.

[Deepening of mine shafts] Uglubka stvolov shakht. Izd.3., perer. i dop. Moskva, Gosgortekhizdat, 1963. 245 p. (MIRA 16:11)

(Shaft sinking)

BOKIY, Boris Vyacheslavovich, prof.; ZIMINA Yekaterina Aleksandrovna, dots.; SMIRNYAKOV, Vitaliy Vasil'yevich, dots.; TIMOFEYEV, Oleg Vladimirovich, dots.; FEDOROV, S.A., prof., retsenzent; SHMELEV, A.I., red.izd-va; LOMILINA, L.N., tekhn. red.

[Mining engineering and mine supports] Provedenie i kreplenie gornykh vyrabotok. [By] B.V.Bokii i dr. Moskva, Gosgortekhizdat, 1963. 557 p. (MIRA 17:2)

ZAVARENSKIY, Ye.F.; STAROVOYT, O.Ye.; FEDOROV, S.A.

Long-period Rayleigh waves from the Alaska earthquake of March 28, 1964. Izv. AN SSSR. Ser. geofiz. no.12:1824-1831 D '64. (MIRA 18:3)

1. Institut fiziki Zemli AN SSSR.

NIKOLAYEV, V.I.; FEDOROV, S.A.

Introducing a machine for impregnating paper with synthetic resins. Biul. tekh.-ekon. inform. Gos. Nauch.-ical. inst. nauch. i tekh. inform. 18 no. 12:47-48 D '48 (MIRA 19:1)

FEDOROV, S.A., doktor tekhn. nauk; RYCHKOV, A.I., inzh.; KRAYEV, Yu.K., inzh.; ROZHENTSEV, N.P., inzh.

Using a flexible concrete stone ring lining. Shakht. stroi. 9 no. 12:17-18 D '65. (MIRA 18:12)

1. Sverdlovskiy gornyy institut (for Fedorov, Rychkov, Krayev).
2. Trest Yegorshimugol' (for Rozhentsev).

L 23447-65 EWT(1)/EWA(h) Peb GW

ACCESSION NR: AP4049241 S/0040/64/000/010/1472/1479

Savarenskiy, Ye. F.; Fedorov, S.A., Dzhafarov, R. D., Rykunov, L.N.

TITLE: A method for modeling surface waves

SOURCE: AN SSSR. Izvestiya. Seriya geofizicheskaya, no. 10, 1964, 1472-1478

TAGS: seismology, seismic modeling, seismic wave, earth crust, seismic sur-

ABSTRACT: One of the important unsolved problems in seismology is the character of

[illegible] problems of this type can be solved by modeling [illegible]. The authors have formulated the requirements for the modeling of surface wave phenomena

possible to obtain the left (high-frequency) branch of the dispersion curve for Rayleigh [illegible] velocities. The range of periods investigated was [illegible] corresponding range [illegible]

strata. "The authors wish to thank V.B. Glasko and Ye. Sh. Gradit for valuable assistance in constructing the theoretical dispersion curves for Rayleigh waves." Orig. art. has and 7 figures

[illegible] Institut fiziki Zemli, Akademiya nauk SSSR (Institute of Physics of the [illegible] Academy of Sciences, USSR)

SUBMITTED: 04May64 ENCL: 00 SUB CODE: ES

NO REF SOV: 019 OTHER: 006

Card 2/2

KUL'BATSKIY, A.P.; FEDOROV, S.D., retsenzent.

[Work practice of progressive steel workers in the open-hearth shop of the Chelyabinsk Steel Plant] Opyt raboty peredovykh stalevarov martenovskogo tsekha Cheliabinskogo metallurgicheskogo zavoda. Sverdlovsk, Gos. nauchno-tekh. izd-vo lit-ry po chernoi i tsvetnoi metallurgi, 1953. 41 p. (MLRA 7:5)

(Open-hearth process)

KOKAREV, Nikolay Ivanovich; SEMENENKO, Petr Pimenovich; KAMKIN, Nikolay Georgiyevich; POPOV, Yevgeniy Stepanovich; FEDOROV, S.D., red.; BERMAN, V.E., red.izd-va; ZIF, Ye.M., tekhn.red.

[Improving the design and operation of open-hearth furnaces with basic crowns] Uluchshenie konstruktsii i ekspluatatsii martenovskikh pechei s osnovnymi svodami. Sverdlovsk, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1958. 55 p. (MIRA 11:12)
(Open-hearth furnaces) (Refractory materials)

FEDOROV S.F.

BASKAKOV, V.S.; VIKHLYAYEV, V.M.; GAVRILOV, R.I.; GRIBNEV, P.A.; ZHEMCHUZHNIKOVA, Ye.Ye.; IDEL'SON, I.D.; MEN'SHIKOV, N.S.; MOROZOVA, Yu.G.; POPOV, V.A.; FEDOROV, S.F.; PAVLOV, Ya.M., dotsent, kandidat tekhnicheskikh nauk, redaktor; ZHIGLINSKIY, A.A., inzhener, redaktor; RUNICH, K.N., inzhener, redaktor; SOKOLOVA, L.V., tekhnicheskiy redaktor

[A collection of drawings for parts used in machine building] Sbornik mashinostroitel'nykh chertezhei dlia detalirovok. Izd. 2-oe, dop. i perer. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 1 v., 50 l. (MIRA 10:2)
(Machinery--Design)

TIMOFEYEVA, Vera Ivanovna; NIKITIN, Mikhail Dmitriyevich; FEDOROV, Sergey Fedorovich; BARANOV, I.A., inzh., red.; SHILLING, V.A., red. izd-va; GVIRTS, V.L., tekhn. red.

[Manufacturing unit-cast turbine runners by the method of precision investment molding with centrifugal pouring] Opyt izgotovleniia tsel'nolitnykh koles turbin metodom lit'ia po vyplavliaemym modeliam s tsentrobezhnoi zalivkoi. Leningrad, 1961. 14 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy . Obmen peredovym opytom. Seriia: Liteinoe proizvodstvo, no.3) (MIRA 14:7)
(Precision casting)

PAL'TOV, I.P. (Leningrad); FEDOROV, S.F. (Leningrad)

Investigation of closed-loop systems containing digital computers with consideration to level quantization. Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.3:82-90 My-Je '61. (MIRA 14:7)
(Automatic control) (Electronic digital computers)

FEDOROV, S.F.; DIMENT, K.Ye.

Conditions for the formation of oil and gas pools in Bashkiria. Dokl. AN SSSR 150 no.6:1340-1343 Je '63. (MIRA 16:8)

1. Chlen-korrespondent AN SSSR (for Fedorov).
(Bashkiria—Petroleum geology) (Bashkiria—Gas, Natural—Geology)

FEDOROV, S.F.

SOKOLOV, M.M.; FEDOROV, S.F., starshiy nauchnyy sotrudnik; PRYANISHNIKOVA, M.N., inzhener

New examples of surgical hammers. Ortop.travm. i protez. 17 no.6; 56-57 N-D '56. (MIRA 10:2)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov Minzdrava SSSR (dir. - M.G.Anan'yev)
(SURGERY, OPERATIVE, appar. and instruments
hammer)

[illegible], D. F., PEVITSKAYA, L. A., [illegible], L. A., [illegible], L. N., ANANYEV, N. G., MUSHEGYAN, S. A.

Novye khirurgicheskie apparaay i instrumenty i opyt ikh primeneniye (New SURGICAL Equipment and Instruments and Experience in Their Use) NO. 1, Moscow, 1957 A collection of Papers of the Scientific Research Inst. for Experimental Surgical Equipment and Instruments.

NIIEKhAI

Kukushkin, L. I., Chekin, V. F., and Fedorov, S. F.

"Methods for measuring cerebrospinal fluid pressure and for the drainage of the ventricles of the brain." Novye khirurgicheskie apparaty i instrumenty i opyt ikh primeneniya, No. 2, 1958, p. 130

17(0) SOV/177-58-11-1/50

AUTHORS: Anan'yev, M.G., and Fedorov, S.F., Candidates of Medical Sciences

TITLE: Possibilities and Ways of Utilizing Achievements of Chemistry in Medical Practice

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 11, pp 3-7 (USSR)

ABSTRACT: The authors report on the success in chemistry with regard to medicine. They stress the importance of plastics in surgery, traumatology and orthopedics and for implantations. At the Tsentral'nyy institut travmatologii i ortopedii (Central Institute of Traumatology and Orthopedics) the preparations AKR-7 and AKR-10 were developed. They are based on methacrylic methylester and are widely used for making protheses of the maxilla, the facial skeleton and skull bones. For the plastica of eye-sockets, ear and nose protheses, plastics EGMIS-12 and AKR-9 are utilized (I. Revzin, V. Marskiy). Some kinds of foam plastics

Card 1/3

Possibilities and Ways of Utilizing Achievements of Chemistry in Medical Practice

are used for manufacturing protheses of extremities, lacteal glands, etc. Many possibilities are given in utilizing fluid plastics for protecting the skin and treating open wounds. The preparations REF-2/10, colloplastics (concentrated colloidal solution of silicon acid sodium salt) are approbated in Soviet clinics for fixing dressings, seizing the skin by dermatomes, etc. The Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentariya (Scientific-Research Institute of Experimental Surgical Apparatus and Instruments) (NIIEKhAiI) uses acrylates of the new marks 1-53, 2-55 and ST-2a for manufacturing protheses of big joints. These acrylates endure sterilization and mechanical treatment very well. A.A. Vishnevskiy, Ye.N. Meshalkin, M.M. Dunayevskiy and D.K. Yazykov of the Scientific-Research Institute for Experimental Surgical Apparatus and Instruments are

Possibilities and Ways of Utilizing Achievements of Chemistry in Medical Practice

developing material for protheses of the oesophagus, the larynx, the ureter, etc. S. Fedorov, Z. Syrkin, Ye. Strelkova, S. Fedorov and A. Sibgatullin are occupied with finding out material which will be resorbed by the organism without causing complications. G. Golovin and P. Novozhilov (Leningrad) suggested synthetic glue "osteoplast" for gluing together bone fragments.

Card 3/3

ASTAF'YEV, O.V.; FEDOROV, S.F., kand.med.nauk

New cold-light surgical mirror. Voen.med.zhur. no.5:85-86 My '59. (MIRA 12:8)

(APPARATUS AND INSTRUMENTS, cold-light speculum (Rus))

ASTAF'YEV, G.V.; FEDOROV, S.F.

Lighted speculums for gynecological use. Akush.i gin. 35 no.4:98-101 Jl-Ag '59. (MIRA 12:11)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev) Ministerstva zdravookhraneniya SSSR.
(ENDOSCOPY equipment & supply)
(GYNECOLOGY equipment & supply)

FEDOROV, S.F.

Use of synthetic materials and objects made of them in various fields of surgery. Trudy NIIEKHAI no.5:216-220 '61. (MIRA 15:8)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.
(SURGERY, PLASTIC) (PLASTICS IN MEDICINE)

FEDOROV, S.F., starshiy nauchnyy sotrudnik; SIVASH, K.M., starshiy nauchnyy sotrudnik; KULAGINA, V.N., inzhener

Splints from a thermoplastic material. Ortop.,travm.i protez. no.7:56-57 '61. (MIRA 14:8)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. - M.G. Anan'yev).
(SPLINTS (SURGERY)) (PLASTICS)

FEDOROV, S.F.; SYRKIN, Z.N.; LEBEDEVA, N.S.

Catgut with a prolonged absorption period. (A new method for its management). Khirurgiia no.11:96-99 '61. (MIRA 14:11)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev) Ministerstva zdravookhraneniya SSSR.
(GATGUT SUTURES)

OBERFEL'D, M.F.; FEDOROV, S.F.; GOL'DINA, B.G.

Tendon suture with alcohol-quinone treated catgut.(Experimental study). Khirurgiia no.11:104-109 '61. (MIRA 14:12)

1. Iz kliniki travmatologii i ortopedii (zav. - prof. V.A. Chernavskiy) II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I. Pirogova i Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev) Ministerstva zdravookhraneniya SSSR.
(CATGUT SUTURES) (TENDONS—SURGERY)

FEDOROV, S.F.; STRELKOVA, Ye.I.

Filling of bone cavities with synthetic resin-cements. Preliminary report. Ortop.,travm.i protez. 22 no.4:71 Ap '61. (MIRA 14:11)
(BONES—SURGERY) (PLASTICS)

FEDOROV, S. F.

"The Oil Fields of the Soviet Union", Moscow-Leningrad, State Publishing House for Scientific and Technical Publications, 1939.

Br Abs

97-18 Geochemistry

Prognosis of oil deposits. S. F. Fedorov (*Compt. rend. Acad. Sci. U.R.S.S.*, 1940, [N.S.] 28—30). [In Russian.] Factors are enumerated as important in forecasting the yield of oil-bearing strata: (i) oil is not found on a commercial scale in horizontally bedded deposits; (ii) the property of acting as an oil reservoir is determined by the "effective porosity" of strata, i.e., the % of pores permitting free movement of oil; (iii) the presence of waters containing $CaCl_2$ and alkali is characteristic of oil-bearing deposits; (iv) the reducing action of oil on rocks produces a fall in the redox potential of deposits as an oilfield is approached; (v) hydrocarbon gases are found in the soil above oil deposits. L. J. J.

FEDOROV4S8F8 600

1. FEDOROV, S. F.

2. USSR (600)

Corr Memb Acad Sci USSR

"In Memory of Academician Ivan Mikhailovich Gubkin"
(On the 5th Anniversary of his death), Vest. Ak. Nauk SSSR, No. 6, 1944.

9. [redacted] Report U-1551, 7 Nov. 1951

CH

Some rules of geologic structures and conditions of formation of petroleum and gas deposits of the Ural land along the Volga. S. F. Fedorov. *Izvest. Akad. Nauk S.S.S.R., Ser. Geol.* 1947, No. 5, 121–30.—An analysis of the conditions of formation of petroleum deposits of two oil-bearing regions of the Ural land along the Volga. The analysis showed that: (1) water occurring below the petroleum layer plays a large role in the destruction of, as well as in the formation of, petroleum deposits; (2) it is possible to establish hypothetically the zones of washout of the petroleum strata; and (3) the role of the erosion process is perhaps twofold, in one case favorable to segregation, and in the other, neg. to segregation. Some effective porosities of rocks in the region studied are recorded.

Gladys S. Macy

FEDOROV, S.F. Corr Mem

USSR/Academy of Sciences
Minerals - Coal

Jan/Feb 50

"November Session of the Department of Geological-Geographical Sciences, Academy of Sciences USSR" 1 p

"Iz Ak Nauk SSSR, Ser Geol" No 1

Gen Assembly, Dept of Geol-Geog Sci, convened 15 Nov in Moscow. These papers were read: (1) "The Problem of Synonymics of Coal Seams," by Yu. A. Zhemchuzhnikov, Corr Mem, Acad Sci USSR; (2) "Some Problems of the Coal-Bearing Properties of Kazakhstan," by I.I. Gorskiy, Corr Mem, Acad Sci USSR; and (3) "The Geological Structure and Oil-and Gas-Bearing Areas of the Region Along the Volga in the Vicinity of Saratov, by S. F. Fedorov, Corr Mem, Acad Sci USSR.

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