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POLAND/Diseases of Farm Animals - Diseases Caused by Bacteria and Fungi. R-2

Abs Jour : Ref Zhur - Biol., No 14, 1958, 64613

Author : ~~Strumillo, Zofia~~
Inst : -
Title : Beta-Hemolytic Streptococci in the Semen of Stallions in the Light of Periodic Bacteriological Examinations.

Orig Pub : Med. weteryn., 1957, 13, No 5, 257-261

Abstract : The analyses of the semen of 400 stallions, carried out during a period of three years, showed that beta-hemolytic streptococci are rarely encountered in the semen and that their presence has an incidental and transient character.

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OLCZAK, Maria; STRUMILO, Barbara

Phage therapy of staphylococcal infections of the skin. Polski tygod. lek. 16 no.7:250-252 13 F '61.

1. Z I Kliniki Chorob Zakaznych w Warszawie; kierownik: doc. dr med. K. Rachon i z Pracowni Fagowej Stacji Sanitarno-Epidemiologicznej w Warszawie; kierownik: doc. I. Lipska.

(STAPHYLOCOCCAL INFECTIONS ther)
(DERMATOLOGY ther)
(BACTERIOPHAGE)

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMINGER, A.

TECHNOLOGY

Periodicals: PRZEGLĄD DRZEWNY. Vol. 7, no. 10, Oct. 1958

STRUMINGER, A. Determination of the slanting angles of the frame-saw blades. p. 364

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMIŃSKA, Felitsiya

I was in Stalingrad. Rabotnitsa 36 no.10:18-19 O '58.
(MIRA 12:1)

1. Glavnyy redaktor zhurnala "Kobeta i zhytse [Kobieta i życie]."
(Stalingrad--Description)

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

[illegible]

"Electrically flash-welded, stud-link chain cables. [illegible]
Okrętowe Warszawa 9 no.6 [illegible]

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMINSKIY, B.V.; ZARUBINA, I.S. [translator]

Determination of the root-mean-square radius of transition $He^3 - H^3$. Dubna, Ob"edinennyy institut iadernykh issledovanii, 1962. 4 p.
(No subject heading)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

L 11015-65 EWT(m) DIAAP/AS(mp)-2/SSD/AFWL/ASD(a)-5/ESD(t)

ACCESSION NR: AP4046436 S/0056/64/047/003/1147/1149

AUTHOR: Struminskiy, B. V.

TITLE: Capture of thermal neutrons by deuterons

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 3, 1964, 1147-1149

TOPIC TAGS: thermal neutron, deuteron, neutron capture, capture cross section, wave function

ABSTRACT: The cross section of the reaction $n + d \rightarrow H^3 + \gamma$ is calculated using the wave functions introduced by L. I. Schiff (Phys. Rev. v. 133, 802B, 1964). By comparing the calculated cross section with the experimental data, the author then obtains the weight of the mixed-symmetry S-state which is present as an admixture in the nuclear wave function. The calculations were made for both Gaussian-function and Irving-function distributions. The experi-

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L 11015-65
ACCESSION NR: AP4046436

mental value of the cross section (0.57 mb at 2200 m/sec) corresponds to a weight of 3.06% or 2.34% for the Gaussian and Irving functions, respectively. The errors of the calculation are briefly discussed. Orig. art. has: 12 formulas.

ASSOCIATION: Matematicheskiy institut Akademii nauk SSSR (Mathematics Institute, Academy of Sciences, SSSR)

SUBMITTED: 17Apr64 ENCL: 00

SUB CODE: NP NR REF SOV: 000 OTHER: 004

Card 2/2

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMINSKIY, B.V.

A model of the symmetry of strong interactions based on the Sp6 group. IAd. fiz. 1 no.4:701-709 Ap '65. (MIRA 18:5)

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

L 64752-65 EWT(m)/T/EWA(m)-2

ACCESSION NR: AP5016551 UR/0056/65/048/006/1594/1597

AUTHORS: Zaymidorova, O.A.; Struminskiy, B.V.; Sulyayev, R.M.; Falomkin, I.V.; Tsupko-Sitnikov, V.M.; Shcherbakov, Yu.A.

TITLE: Nuclear form factors in muon capture by He-3

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 6, 1965, 1594-1597

TOPIC TAGS: muon, helium, capture cross section

ABSTRACT: The authors obtained improved values of the nuclear matrix element for the reaction $\mu^- + He^3 \rightarrow H^3 + \nu$ from the experimental form factors obtained from the capture of pions by He^3 and from the scattering of electrons by He^3 and H^3. The calculations are based on the expression given by Fujii and Primakoff for the matrix elements (Nuovo Cimento v. 12, 327, 1959). The partial probability for

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

L 64752-65

ACCESSION NR: AP5016551

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the capture of muons by He^3, calculated on the basis of the universal weak interaction theory with the values of the form factors obtained, is found to be $1515 \pm 55\ sec^{-1}$. This agrees well with the value $1490 \pm 40\ sec^{-1}$ obtained in earlier experiments by the authors (ZhETF v. 44, 389, 1963). The ratios of the pseudoscalar constants are calculated to be $g_A^{\beta}/g_V^{\beta} = -1.160$ and $g_p^{\mu}/g_A^{\mu} = 7$. From a comparison of the calculated probability with the experimental results the authors estimate the pseudoscalar constant to be $g_p^{\mu} = (8 \pm 3)g_A^{\mu}$. "The authors thank S. M. Bilen'kiy, S. S. Gershteyn, and B. Pontecorvo for a discussion of the results." Orig. art. has: 1 figure and 3 formulas.

ASSOCIATION: Ob"yediennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

Card 2/3

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

L 64752-65

ACCESSION NR: AP5016551

SUBMITTED: 22Jan65 ENCL: 00 SUB CODE: NP

NR REF SOV: 003 OTHER: 011

Card 3/3

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMINSKIY, G. V.

5895. Mutual solubility of polymers. III. Heats of mixing of polymers. IV. Influence of packing density of molecules upon their mutual solubility. G. V. STRUMINSKII and G. L. SLONIMSKII. *Zh. Fiz. Khim.*, 1956, No. 9, 1941–7; No. 10, 2144–8. *Referat. Zh. Khim.*, 1957, abs. 34615. Cf. *Rubber Abs.*, 1957, abs. 2555. III. From data on heats of solution of polymers, their mixtures, and on heats of mixing of their solutions, heats of mixing of polymers are determined using Hess's Law. The mixtures included various rubbers. The data show that most polymers mix endothermically while mixtures of their equal-concentration solutions separate into two phases, but exothermic mixing and the absence of separation is observed with mixtures of natural rubber and sodium butadiene rubber. Polymers which are similar in structure are not mutually soluble. It is concluded that mutual solubility of polymers is determined by the sign of their heat of mixing.

IV. It has been shown that the mixing of SKB with SKS-30 rubber and with polystyrene proceeds with the liberation of heat, while mixes of their equal-concentration solutions separate out into two phases. This separation indicates a negative heat of mixing. The authors explain the observed positive heat effect by the reduction of the volume of the system on mixing of their components,

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4E2c (7)

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STRUMINSKIY, G.V.

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Matl.

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2 May
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The mutual solubility of polymers. III. The heat of mixing of polymers. G. V. Struminskii and G. L. Slonimskii (L. Ya. Karpov Phys.-Chem. Inst., Moscow). Zhur. Fiz. Khim. 30, 1941-7(1956); cf. preceding abstr.—The relation between the mutual soly. of polymers and the sign. of the heat effect during mixing was investigated by the detn. of the heat of soln. and of mixing of cellulose esters, Na butadiene, butadiene-styrene, natural rubber, polyacrylates, polymethacrylates, polystyrene and other polymers in an adiabatic calorimeter, with benzene, cyclohexanone, CH_2Cl_2, and acetone as common solvents. Before testing, most polymers were purified by pptn. with nonsolvents, but synthetic rubber samples were used as received, because their purification resulted in soly. losses due to strong oxidation resulting from the autoxidant removal during the purification. The method used in blending the polymer mixts. affected the results, and the methods were standardized on the viscosity detns. of dil. solns. of the polymers in 5-6 different concns., not exceeding 1%, and extrapolating the characteristic viscosities to 0 polymer concn. The heats of

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STRUMINSKII, G.V. & Etc.

mixing, reproduced in a table, varied between +5.0 and −8.0. Most of the polymers mix endothermally, and their solns. separate into layers; their apparent miscibility is caused by their high viscosity. Natural rubber mixes exothermally with Na butadiene, nitrocellulose (11.9% N), acetylcellulose (56% Ac-group), and poly(vinyl acetate), and the mixts. do not separate. **IV. The effects of molecular packing tendency upon the mutual solubilities.** G. L. Slonimskii and G. V. Struminskii. *Ibid.* 2144-8.—The anomalous results of mixing of Na butadiene rubber with butadiene styrene, a single-phase formation upon the mixing of solns. of the same concn. when the heat of mixing is pos., and a layer formation with a neg. heat of mixing effect, is explained by the significant influence of the vol. reduction during the mixing of these polymers. When no contraction occurs during the mixing, the heat effects do not depend upon the degree of polymerization, and the sign of the heat effect can even be reversed if the mol. density of the structure becomes reduced during the polymerization. The existence of lower crit. mixing temps. above the polystyrene setting temp. for butadiene rubber with butadiene styrene and with polystyrene is concluded from the exptl. results and the data in the literature. The lower crit. mixing temp. is caused by the lowering of the mol. packing density at temps. below the polystyrene setting temp.

W. M. Steinberg

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

SLONIMSKIY, G.L.; STRUMINSKIY, G.V.

Mutual solubility of polymers. Part 4. The effect of density of packing of polymer molecules on their mutual solubility. Zhur. fiz. khim. 30 no.10:2144-2148 O '56. (MLRA 10:4)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova, Moskva.
(Polymers) (Solubility)

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

5(1)

AUTHOR: Porshitskiy, I. I. SOV/64-59-4-25/27

TITLE: Conference of the Workers of the Plastics Industry (Soveshchaniye rabotnikov promyshlennosti plastmass)

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 4, pp 88-89 (USSR)

ABSTRACT: From June 9 to 14, the branch conference of the workers in the plastics industry was held in Moscow. It was organized by the following institutions: Gosudarstvennyy komitet Soveta Ministrov SSSR po khimii (State Committee of the Council of Ministers of the USSR for Chemistry), TsK profsoyuza rabochikh neftyanoy i khimicheskoy promyshlennosti (Central Committee of the Trade Union of the Workers of the Petroleum- and Chemical Industry), Tsentralnoye pravleniye VKhO im. D. I. Mendeleyeva (Central Administration VKhO imeni D. I. Mendeleyev) and Sovety narodnogo khozyaystva Moskovskogo oblastnogo i gorodskogo ekonomicheskikh rayonov, GNTK SSSR i RSFSR (Councils of the National Economy of the Moscow Oblast'- and Town Economic Districts) GNTK USSR and RSFSR. 1000 persons took part in the Conference. The tasks which were set the plastics industry by the XXI Congress of the CPSU and the May Plenum of the TsK CPSU 1958 were discussed. Beside the Plenary Session, sessions of four different sections

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took place. In the session of the section for polymerization plastics and cellulose-ester 16 lectures were held. Among them the following: F. A. Glaynik (Kuskovskiy khimicheskiy zavod) (Kusko Chemical Works) - Research Work With Polyformaldehyde, A. V. Golubeva (NIIPP) - Styrene copolymers, N. S. Lebedev (Yerevanskiy zavod im. S. M. Kirova) (Yerevan Works imeni S. M. Kirov) - Production of Vinyl Chloride With Mercury-free Catalysts. In the section of condensation plastics P. S. Ivanov (Nizhne-Tagil'skiy zavod plastmass) (Nizhniy Tagil Works for Plastics) spoke on "The Technology of the Phenol Formaldehyde Resins According to the Continuous Method". In the session of the section glass plastics 12 lectures and 9 communications of research institutes concerning the results obtained at the production of glass plastics were delivered. The following lectures were held in the section for final processing of plastics: K. S. Strel'tsov (Model'no-konstruktorskiye masterskiye Leningradskogo sovnarkhoza) (Model Constructing Workshop of the Leningrad Sovnarkhoz) "On the Processing of Thermo-plastics to Final Products According to the Pneumatic Method", I. F. Mitskevich (Kiyevskiy ekonomicheskiy rayon) (Kiyev Economic Rayon), "On Manufacturing Complicated Final Products of

Card 2/3

Polyamides by Casting at Low Pressure Directly From the Fusion Kettle Without the Use of Casting Implements" [illegible] (NIIPM) "On the Production and Final Processing of Transparent Soft and Hard Polyvinyl Chloride Mixtures". The congress delegates criticized the work of the Upravleniye plasticheskikh mass i sinteticheskikh smol Gosudarstvennogo komiteta Soveta Ministrov SSSR po khimii (Administration for Plastic Masses and Synthetic Resins of the State Committee of the Council of Ministers of the USSR for Chemistry), and some institutes because of insufficient coordination. Furthermore the insufficient supply with projecting plans of the plastics industry by the Giproplast was criticized. The unsatisfactory development of some Districts of National Economy (Kerenova Leningrad, Armenia, et al) was pointed out. The conference supported the decision of the branch conference of the nitrogen industry concerning the introduction of a holiday to be called "Day of Chemists".

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S/191/60/000/007/009/015
B004/B056

Effect of Technical Characteristic Values in Extrusion Upon the Efficiency of Screw Extruders and the Quality of Polyvinyl Dichloride

(Fig. 3). Later pressure was measured by means of a continuous measuring device (Fig. 4) which contained a bellows-type thermostat such as is used for the temperature control in the "Moskvich" motor car. Efficiency was measured on the basis of weight and length of the tube extruded per minute. The authors show their experimental data in the form of diagrams. Fig. 5: weight of the extruded tube as a function of temperature. Fig. 6: length of the extruded tube as a function of temperature. Two maxima of the extrusion were observed. The first depended on wall thickness, the second was constant at 120°C. Fig. 7: Pressure at the end of the screw barrel as a function of temperature. Up to 120°C pressure dropped with rising temperature and wall thickness; above 120°C, the pressure increased with increasing temperature. The pressure at the head did not exceed 10 kg/cm^2. Fig. 8: Extrusion as a function of pressure. A dependence of extrusion on pressure exists only up to 120°C. Fig. 9: Temperature ranges in which qualitatively good tubes are obtained. The upper limit was about 120°C

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

BR

ACCESSION NR: AT4016996 S/3057/63/000/000/0080/0092

AUTHOR: Struminskiy, G. V.; Ignatova, T. A.; Katkova, T. N.; Zelenov, A. S.; Ivanova, T. G.

TITLE: Glue PED-B for gluing formula 57-40 masticated rubber to the surfaces of building structures

SOURCE: Zashchitny*ye pokry*tiya v atomnoy tekhnike (Shielding in nuclear engineering); sbornik statey. Moscow, Gosatomizdat, 1963, 80-92

TOPIC TAGS: glue PED-B, 57-40 masticated rubber, masticated rubber, radioactive contamination, radioactive shielding, nuclear shielding, glue

ABSTRACT: The authors discuss the shortcomings of certain of the glues thus far used for fastening the polyvinylchloride masticated rubber shielding (formula 57-40) which is presently in wide use as a protection against radioactive contamination. Experimental work has shown that glue compositions on a perchlorvinyl resin base with a small admixture of epoxide resin ED-5 have good adhesion to formula 57-40 polyvinylchloride masticated rubbers. The introduction into the composition of epoxide resin hardeners leads to the formation of a three-dimensional structure during the hardening process of

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ACCESSION NR: AT4016996

the glue, resulting in a considerable increase in the strength of the bond in comparison with perchlorvinyl glues. The authors enumerate the most important general requirements of a glue for these purposes: necessary strength and service life of the glue bond, viability of the glue and non-inflammability during the working process, and others. The special requirements were the following: 1) The glue must not impair the desorption properties of the shielding with respect to radioactive contamination; 2) The surface of glued lap bonds of glued materials must not accumulate radioactive contaminants and must be capable of being washed free of them no worse than the covering material; 3) The glued bond must possess sufficient resistance to radiation. An experimental evaluation was made of certain general and special properties of type PED-B glue. Among the parameters considered were the mechanical properties (with description of the test equipment employed) and the sorption-desorption properties of the glue with respect to radioactive isotopes, as well as its ability to withstand radiation. A description of the technological process to be followed in fastening formula 57-40 masticated rubber shielding with PED-B glue is also given. It was found that this glue, which is manufactured on an incombustible methylene chloride solvent has good adhesion characteristics not only to the masticated rubber, but also to cement, metals, wood and other construction materials. It is not dangerous from the

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ACCESSION NR: AT4016996

point of view of explosions. While the residual radioactivity accumulated by glued bonds was found to be very high (up to 60%), it was found that by lacquering the bonds with high-deactivating lacquers (VKHL-4000, KHSL) this residual activity could be reduced to a level close to the value of this parameter for the basic shielding material. The authors also determined that the bonds preserve the required strength under the effect of a dose of gamma-radiation to 100 Mrads. Orig. art. has: 3 tables and 6 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 20Feb64 ENCL: 00

SUB CODE: NP, MT NO REF SOV: 002 OTHER: 000

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APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

ACCESSION NR: AP4028154 S/0291/64/000/001/0071/0074

AUTHORS: Turapov, A.; Struminskiy, G. V.

TITLE: Heat of copolymerization of polydiethyleneglycolmatleinateadipinate with styrene

SOURCE: Uzbekskiy khimicheskiy zhurnal, no. 1, 1964, 71-74

TOPIC TAGS: heat of copolymerization, polyester, polyester polymer, polyester copolymer, polyester styrene copolymer, heat of curing, heat of hardening, resin reactivity

ABSTRACT: The heat of curing polyester resins based on polydiethyleneglycolmaleinateadipinate (PDMA) with different amounts of styrene was determined calorimetrically. It was determined that PDMA will polymerize without the addition of styrene (heat of polymerization = 23.3 cal/gm). The heat of copolymerization increases as styrene is increased from 0-33%, then levels off with 33-40% styrene and again increases (to 76 cal/gm) as styrene is increased from 40-70%. The amount of styrene in the copolymer changes the time required to harden the copolymer; the minimum time of 61 minutes is realized with 33% styrene. Changes in heat evolution and curing time of the

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ACCESSION NR: AP4028154

PDMA resin are indicative of the change of reactivity of polyester resins depending on styrene content. The heat of polymerization of PDMA without styrene was determined at 60, 80 and 100C. Although the heat of polymerization values attain a constant value at temperatures of 80-100C, examination of the resins polymerized at 80 and 100C showed that they still contain 10-15% unreacted groups. "(Resin) samples were supplied by P. Z. Pi and coworkers." "Authors thank L. G. L Slonimsk for a valuable advice." Orig. art. has: 3 figures.

ASSOCIATION: NIITsF Gosplana SSSR (NIITsF, Gosplan, SSSR)

SUBMITTED: 26Sep63 DATE ACQ: 29Apr64 ENCL: 00

SUB CODE: SS, GC NR REF SOV: 006 OTHER: 004

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APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMINSKI

Determination of adsorption isotherms of carbon disulfide on activated carbon of the "Norit" type. J. Chrząszczewski, J. Strumiński, and M. Wroński (Univ. Łódź, Poland). [illegible]

[illegible] pressures the adsorption changes only slightly. At higher pressures the adsorption increases rapidly to level off at much higher pressures. A table of differential heats of adsorption of CS_2 according to isotherms at 10° and 16° is given.

B. Krawiec

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STRUMINSKIY, V.V.

Skol'zhenie kryla v viazkoi zhidkosti. (Akademiia Nauk SSSR. Dokl dy. Novaia seriia, 1946, v. 54, no.7, p.575-578)

Title tr.: Sideslip in a viscous fluid.

Also published in French in Comptes rendus de l'Academie des Sciences de l'URSS. Nouvelle serie, 1946, v.54, no.7, p.571-574 (Q60.A52)

AS262.S3663 v. 54

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMINSKIY, V.V

Source: Mathematical Reviews, Vol [illegible] No. [illegible]

Struminsky, V. V. Glissement d'une aile dans un gaz visqueux compressible. C. R. (Doklady) Acad. Sci. URSS (N.S.) **54**, 765–768 (1946).

The Navier-Stokes equations and the equation of energy are written for the flow of a compressible viscous fluid about a yawed infinite cylinder, i.e., flow in which all physical quantities are independent of the coordinate z measured along the cylindrical axis. In certain cases (isothermal, adiabatic) the flow pattern in planes normal to the axis is independent of the axial flow; hence flow patterns can be carried over from plane cases. In such cases the forces on the cylinder will depend upon the Mach and or Reynolds numbers based on the normal (to the axis) component of the stream velocity and on the angle of yaw in a simple way.

For large Reynolds numbers, the general equations are approximated in the manner of Prandtl's boundary-layer theory and it is further assumed that the Prandtl number is unity and there is no heat transfer from the cylinder. The subsequent treatment follows closely that of Dorodnitzyn [same C. R. (N.S.) 34, 213–219 (1942); these Rev. 4, 176]. Again the energy equation can be integrated and becomes a statement of constant enthalpy. The same independent variables are introduced and in this case a pair of simultaneous nonlinear partial differential equations results. The author proposes to obtain approximate solutions by the same method as Dorodnitzyn, using the Kármán-Pohlhausen method, assuming quartic expressions for both the axial and normal velocity components.

In the special case of the yawed flat plate, the problem can be related to the corresponding plane-flow problem, which was treated in detail by Dorodnitzyn [loc. cit.]. After correction of an apparent typographical error in equations (13), the results appear to state that the boundary-layer flow is in the free-stream direction and proportional to $\varphi_0'(\tau)$ [see these Rev. 4, 176], where, in this case, τ is defined proportional to the normal component of the stream velocity. For other cylinders, the boundary-layer flow will deviate from the stream direction, assuming an axial direction at the point of separation of the normal flow.

W. R. Sears (Ithaca, N. Y.).

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STRUMINSKIY, V.V.

Aerodynamics (2)

AER

Sideslip in a Viscous Compressible Gas. V. V. Struminskii. (Akademiia Nauk S.S.S.R., Leningrad, Doklady, Vol. 54, No. 9, 1946 pp. 769-722.) U.S., N.A.C.A., Technical Memorandum No. 1276, April, 1951. 8pp. 2 references. Development of a theory of the three-dimensional boundary layer in a compressible gas by which the aerodynamic coefficients of a sideslipping wing canbe determined.

July '51

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

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STRUZINSKIY, V. V.

Sideslip in a viscous compressible gas. Washington, 1951. 8 p. (U. S. NACA TM no. 1276)

Trans. of Skol'zhenie krypla v viazkom szhimaemom gaze.

TL507.U57 no. 1276

SC: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

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STRUMINSKIY, V.V.

1-F\W

Struminskiĭ, V. V. Three-dimensional boundary layer on an arbitrary surface. Dokl. Akad. Nauk SSSR (N.S.) 108 (1956), 595–598. (Russian)

Die Gleichungen für die dreidimensionale Grenzschicht werden für Re→∞ (Re Reynoldssche Zahl) aus den Navier-Stokesschen Gleichungen hergeleitet. Hierbei wird angenommen, daß die Kontur des umströmten Körpers stetig differenzierbare Hauptkrümmungen hat und die Geschwindigkeit in der Nachbarschaft beim Grenzübergang nebst den Ableitungen erster und zweiter Ordnung endlich bleibt. Es werden Spezialfälle hervorgehoben, in denen Analogie zu den Gleichungen der dreidimensionalen Grenzschicht für die ebene Platte besteht.

K. Maruhn (Dresden).

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STRUMINSKIY, V. V.,

"Methods of Calculating the circulation around a sweptback wing in subsonic flow," with LEBED', N. K.,

Theory of the Three-dimensional Boundary Layer on a Slipping Wing, Collection of Theoretical Papers in Aerodynamics, Moscow, Oboronogiz, 1957.

This collection assembles a number of scientific reports, on theoretical aerodynamics, first printed in various publications between 1947 and 1952, and intended for research workers in advanced aerodynamics.

(Abstract on cards following)

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computing machines. The report contains 8 figures and 3 tables. There are 9 references, of which 5 are Soviet and 1 German.

Struminskiy, V.V. Theory of the Three-dimensional Boundary Layer on a Slipping Wing 174

The report, first published in 1949, investigates the problem of slipping of a wing of infinite span in the uniform flow of an incompressible fluid and in a compressible gas. For this class of three-dimensional flows of a fluid, exact relationships between the solutions of the Navier-Stokes equations have been established. On the basis of these relationships the aerodynamic coefficients of the wing in a flow with slip are expressed by means of the aerodynamic coefficients of a wing in a flow without slip. In a compressible gas such relationships have been established only for isothermal and adiabatic processes. A theory is developed

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for the three-dimensional boundary layer on a wing moving with slip in an incompressible fluid and in a compressible gas. The basic integral calculation methods for a two-dimensional boundary layer are generalized for the case of a three-dimensional boundary layer. For a flat plate an exact solution is obtained of the equations for a three-dimensional boundary layer in an incompressible fluid and a compressible gas. It is shown that within the boundary layer the flow of the liquid is twisted to a certain angle which varies along the height of the boundary layer and along the wing chord. This angle also depends on the Mach number. At the point of flow separation within the boundary layer the fluid flows along the wing span, causing premature flow separations for finite-span wings. The developed theory of the three-dimensional boundary layer permits calculation of all forces and moments acting on the slipping wing and investigation of the physical processes taking place within the boundary layer. The report is divided into the following sections:

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Introduction; Ch. I. Three-dimensional Boundary Layer on a Slipping Wing in an Incompressible Fluid; 1. Basic aspects; 2. Exact relationships between solutions of hydrodynamic equations; 3. Boundary-layer equation; 4. Application of Pohlhausen's method; 5. Application of asymptotic methods; 6. Exact solution for a plate; Ch. II. Three-dimensional Boundary Layer on a Slipping Wing in a Compressible Gas; 1. Basic aspects; 2. Exact relationships between solutions of gas-dynamic equations; 3. Equation for boundary layer in a compressible gas; 4. Application of Pohlhausen's method; 5. Application of asymptotic methods; 6. Exact solution for a plate. The report contains 10 figures and 4 tables. There are 6 references, of which 5 are Soviet and 1 English.

Sokolova, I.N. Temperature of a Plate in Supersonic Flow, Taking Radiation Into Account 206

~~Card 20/~~33

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into the following sections: Introduction; 1. Basic equations; 2. Generalization of Pohlhausen's method; 3. Generalization of asympototic methods; 4. More precise calculation method for the unsteady boundary layer; 5. Exact solution for a plate; 6. Unsteady boundary layer on bodies of revolution. The report contains 7 figures and 5 tables. There are 4 references, of which 2 are Soviet, 1 English and 1 German.

Struminskiy, V.V. and Lebed', N.K. Method of Calculating the Circulation Distribution Along the Span of a Sweptback Wing 253

The report, first published in 1952, describes a new method for calculating the circulation distribution along the span of sweptback wings. With the new method it is possible to determine the circulation at a large number of calculated sections of a wing. This considerably increases the accuracy of the calculation and permits a sufficiently reliable determination of the circulation of sweptback wings with flaps

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and ailerons, and also of the damping properties of swept-back wings. The report is divided into the following sections: 1. Basic aspects; 2. Basic equations of the sweptback wing; 3. Effect of the compressibility of the air on the aerodynamic characteristics of sweptback wings; 4. Method of solving the wing equation; 5. Calculation of the aerodynamic characteristics of sweptback wings; 6. Sequence of calculation of the circulation distribution along the span of sweptback wings; 7. Sample calculation for a sweptback wing; Appendix. The report contains 21 figures, 4 tables, and 5 forms of calculation sequences. There are no references.

Chushkin, P.I. Calculation of the Circulation Distribution Along Rectangular Wings of Low Aspect Ratio 287

The report, first published in 1949, presents a method of calculating the circulation along rectangular wings of low aspect ratio. The wing is replaced by a series of vortex filaments u-

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[illegible], V. V.

"Theory of the non-steady state boundary layer."

In this paper the general theory of the non-steady state boundary layer on cylindrical bodies of any cross section and on solids of revolution is expounded. A generalisation is given of the main intergral methods of calculation of the steady state boundary layer to the case of calculation of an arbitrary non-steady state boundary layer. A new integral method of calculation of the boundary layer was evolved which takes fully into consideration the features of the non-steady state processes. For a flat plate an accurate solution was found of the equations of the non-steady state layer. The general relations between the characteristics of the non-steady state boundary layer obtained in this paper enabled establishing the particular role of the relative acceleration from the point of view of the non-steady state movement of a liquid. It is shown that a positive relative acceleration brings about a ter-free flow past the wing, whilst a negative acceleration brings about a tearing off of the flow. A variable magnitude of the relative acceleration leads to a variable separation of vortices from the wing surface. On the basis of qualitative relations obtained in the paper, the influence of non-steady state movement of an aircraft on its aerodynamic data is determined. (First published in 1948)

Symposium of Theoretical Work on Aerodynamics, Oborongiz, 1957, 3,000 copies
Central Aero-Hydrodynamics Inst. imeni Prof. N. Ye. Zhukovskiy.

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Struminskiy, V. V.

S/124/60/000/01/06/011
A005/A001 82176

10,2000

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 1, p. 88, # 703

AUTHOR: Struminskiy, V. V.

TITLE: The Theory of Three-Dimensional Boundary Layer on the Sliding Wing

PERIODICAL: Sb. teor. rabot po aerodinamike. Moscow, Oborongiz, 1957, pp. 174-205

TEXT: The author studies some properties of a flow of compressible and incompressible fluid around an infinite-span wing, rectangular in horizontal projection, under a slip angle. The stream parameters in such a flow vary only in the plane orthogonal to the wing generatrix, i. e., they depend only on two variables. The full Navier-Stokes-equation system decomposes into two equations in case of an incompressible fluid; the first closed system, which correlates the pressure with the velocity components in the above-mentioned plane, is analogous to the Navier-Stokes system for a two-dimensional motion and may be solved independently. The second system consists of a single equation for the velocity component along the span. In this case, the aerodynamic coefficients c_x, c_y, and m_z (the x-axis is parallel to the wing chord, the z-axis is parallel to the span, the y-axis is

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The Theory of Three-Dimensional Boundary Layer on the Sliding Wing

perpendicular to the x- and z-axes) may be expressed by the corresponding coefficients for the zero slipangle. The experimental corrobation of this fact is given. In case of a compressible gas, all quantities are connected by the energy equation, and the above-mentioned property of the quantities c_x, c_y, and m_z is valid only for adiabatic and isothermal flow. The equation system of the boundary layer is given. In the general case, when a pressure gradient is present, the equations are solved by the integral correlation methods, and the generalizations of the Pohlhausen- and Kochin-Loytsyanskiy methods to the three dimensional boundary layer are considered. For these purposes, two "conditional thicknesses" of the boundary layer are introduced, which appear in the profiles of the component velocities along the x- and z-axes. The Prandtl number for a compressible gas is assumed to be equal to unity, and the Doroduitsyn variables are introduced. Rigorous self-modeling solutions of the equations of the boundary layer on a plate being flowed around with slippings are discussed. In contrast to the case of pressure gradient, the velocity vector within the boundary layer on the plate has the same direction as the incident stream, and the three-dimensional boundary layer degenerates to a two-dimensional one.

V. V. Lunev

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82354

10.2000

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 3, p. 70, # 3418

AUTHOR: Struminskiy, V. V.

TITLE: The Theory of Unsteady Boundary Layer

PERIODICAL: Sb. teor. rabot po aerodinamike. Moscow, Oborongiz, 1957, pp. 230-252

TEXT: The work describes an investigation of the unsteady boundary layer of an incompressible liquid. The generalization of the fundamental integral methods for calculating the steady boundary layer (Pohlhausen, Kochin - Loytsyanskiy, Dorodnitsyn) is given with application to the case in question. Tables and graphs of the form-parameter functions appearing in the integral correlation are presented. The problem of the boundary layer on a plate infinite at both sides is solved by the Pohlhausen method: it is assumed that the speed U of the liquid flowing around the plate varies in time according to the law:

$$U = 0 \text{ for } t < 0, \quad U = U_0 e^{pt} \text{ for } t \geqslant 0 \qquad (U_0,\ p = \text{constant}).$$

The approximate solution obtained for the friction stress was compared with the

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The Theory of Unsteady Boundary Layer

corresponding rigorous solution of the Navier-Stokes equation. It turned out that they coincide satisfactorily within the zone remote from the separation point. The problem of the boundary layer on a plate is solved by the Pohlhausen method in case of a flow speed varying according to the law:

$$U = 0 \text{ for } t < 0, \quad U = U_0 \text{ for } t \geq 0.$$

It is shown that the boundary layer in the section

$$0 < x < x_0 \quad (x_0 = \frac{2}{3} \cdot \frac{37}{63} U_0 t_0)$$

at the instant t_0 is the same as at the steady flow around the plate, and at $x > x_0$ the boundary layer is the same as it is on a plate, infinite at both sides, being flowed around with speed U_0. The part played by the relative acceleration and the acceleration effect on the boundary layer separation are stated. A special integral method is proposed, which better takes into account, in the author's opinion, the specific features of unsteady processes. The equation of the boundary layer for the stream function is reduced, in case of a plane plate and a flow speed varying in time according to a power- and exponential law, to an equation containing only two combinations of independent variables. The author proposes to solve the latter equations by series, the coefficients of

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

20-2-10/60

AUTHOR: Struminskiy, V. V.

TITLE: The Equations of a Tridimensional Boundary Layer in a Compressible Gas for an Arbitrary Surface (Uravneniya trekhmernogo pogranichnogo sloya v szhimayemom gaze dlya proizvol'noy poverkhnosti)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2, pp.271-274 (USSR)

ABSTRACT: The present paper furnishes the strict derivation of these equations and gives transformations which bring these equations to a form analogous to the equations in a tridimensional layer in a viscous incompressible liquid. The equations of motion of the viscous compressible gas are written down in nondimensional quantities. As scales the author selects the values of velocity, density, pressure of the absolute temperature, the coefficient of viscosity and the thermal conductivity in a certain point of the flow. A characteristic measure of the surface to be flown round serves as scale of length. The complete system of the equation of motion of the viscous gas, corresponding to this case, is written down here in the

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The Equations of a Tridimensional Boundary Layer in a Compressible Gas for an Arbitrary Surface

PRESENTED: December 4, 1956, by A. A. Dorodnitsyn, Academician

SUBMITTED: November 28, 1956

AVAILABLE: Library of Congress

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMINSKIY, V. V. (Moscow)

"A contribution to the Theory of Turbulence."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMINSKIY, V. V. (Moscow)

"The State of the Art in the Analysis of Supersonic Flows Past Bodies."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

S/179/62/000/006/003/022
E032/E114

AUTHORS: Strumlnskiy, V.V., and Filippov, V.M. (Moscow)

TITLE: An experimental study of light-scattering phenomena in the laminar and turbulent flow of a liquid

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Mekhanika i mashinostroyeniye, no.6, 1962, 10-16

TEXT: The scattering of light in a stream of water flowing through a tube of constant diameter (1.5 mm) was investigated, using the apparatus illustrated schematically in Fig.2. The velocity of the water was measured with the aid of a specially developed ultramicroscope with a rotating mirror. The mirror is set up between the objective and the eyepiece. At a certain velocity of rotation of the mirror about an axis perpendicular to the direction of motion of the liquid and the optical axis of the objective, the trajectories of particles suspended in the liquid will appear as luminous points in the field of view. The velocity of motion of the image and the velocity of displacement of the image due to the rotation of the mirror are

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then equal and opposite. In this way velocities between a few mm/sec and 1 m/sec can be determined with adequate accuracy. The tube (7) in which the flow was investigated was inserted into a wider tube, as illustrated in Fig. 1. Measurements of the velocity profile with the aid of a Pitot tube in the larger tube (square cross section) in the case of turbulent motion confirmed existing experimental data. It was found that the transition from laminar to turbulent flow was accompanied by a considerable change in the characteristics of the scattered light. Thus, turbulent flow gave rise to considerable pulsations in the amplified output signal of the light detector, which were absent in the case of rather slow flow. It was found that the relative change in the r.m.s. value of the pulsating component of the scattered light

$$\lambda = \left(\sqrt{\langle i^2 \rangle} / I\right) 100$$

remained zero up to an axial velocity $u_0 \approx 20$ cm/sec and then rose steeply in the transition region between laminar and turbulent flow, finally reaching a steady value. The addition of

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soluble salts to the water was found to have no effect on the critical velocity. The magnitude of the pulsating component was found to depend on the scattering angle. An experimental study was also made of the frequency distribution of the energy of the pulsating component of the scattered light. It was found that a change in the axial velocity u_0 leads to a considerable change in the spectrum of the pulsating component. At low values of u_0 approaching the critical velocity, most of the energy is concentrated in the low frequency region. With increasing velocity, the energy of the turbulent pulsations shift towards higher frequencies, finally reaching several hundred c.p.s. There are 11 figures.

SUBMITTED: July 30, 1962

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Strumiesky, V.V.

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Vsesoyuznyy s"yezd po teoreticheskoy i prikladnoy mekhanike. 1st, Moscow, 1960.

Trudy Vsesoyuznogo s"yezda po teoreticheskoy i prikladnoy mekhanike, 27 yanvarya -- 3 fevralya 1960 g. Obzornyye doklady (Transactions of the All-Union Congress on Theoretical and Applied Mechanics, 27 January to 3 February 1960. Summary Reports). Moscow, Izd-vo AN SSSR, 1962. 467 p. 3000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Natsional'nyy komitet SSSR po teoreticheskoy i prikladnoy mekhanike.

Editorial Board: L. I. Sedov, Chairman; V. V. Sokolovskiy, Deputy Chairman; G. S. Shapiro, Scientific Secretary; G. Yu. Dzhanelidze, S. V. Kalinin, L. G. Loytsyanskiy, A. I. Lur'ye, G. K. Mikhaylov, G. I. Petrov, and V. V. Rumyantsev; Resp. Ed.: L. I. Sedov; Ed. of Publishing House: A. G. Chakhirev; Tech. Ed.: R. A. Zamarayeva.

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PURPOSE: This book is intended for scientific and engineering personnel who are interested in recent work in theoretical and applied mechanics.

COVERAGE: The articles included in these transactions are arranged by general subject matter under the following heads: general and applied mechanics (5 papers), fluid mechanics (10 papers), and the mechanics of rigid bodies (8 papers). Besides the organizational personnel of the congress, no personalities are mentioned. Six of the papers in the present collection have no references; the remaining 17 contain approximately 1400 references in Russian, Ukrainian, English, German, Czechoslovak, Rumanian, French, Italian, and Dutch.

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L 14980-63 EPA(b)/EWT(1)/BDS AFFTC/ASD Pd-4

ACCESSION NR: AP3005428 S/0020/63/151/005/1046/1049

56

AUTHOR: Struminskiy, V. V. (Corr. member, AN SSSR)

TITLE: On the nonlinear theory of aerodynamic stability

SOURCE: AN SSSR. Doklady*, v. 151, no. 5, 1963, 1046-1049

TOPIC TAGS: nonlinear theory, laminar-flow stability, stability boundaries, laminar flow, viscous flow, successive approximation method, recurrent equation, small-parameter method, successive approximation

ABSTRACT: The small-parameter, or successive approximation, method is applied to the study of the aerodynamic stability of laminar flow. The two-dimensional flow of viscous, incompressible fluid between two parallel surfaces and the laminar flow on the surface of a body are considered, and stability conditions are analyzed. The first approximation coincides with general linear theory, whereas for successive approximations a recurrent system of ordinary differential equations is obtained. It is shown that the stability boundaries and the nature of changes of perturbation in time in successive approximations are determined by the first linear approximation. "The author expresses his thanks to Academician A. A. Dorodnitsyn for valuable observations concerning this work." Orig. art. has: 16 formulas.

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMINSKIY, V.V.

Nonlinear theory of the development of aerodynamic perturbations. Dokl. AN SSSR 153 no.3:547-550 N '63. (MIRA 17:1)

1. Chlen-korrespondent AN SSSR.

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

TRUSHINSKIY, V.V. (Moscow)

"Contribution to the non-linear theory of aerodynamic perturbation development"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow 29 Jan - 5 Feb 64.

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUHINSKY, V.V.; FILIPPOV, V.M. (Moscow)

"One some singularities of turbulent flows"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow 29 Jan - 5 Feb 64.

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMINSKIY, V.V.

Method for solving Boltzmann's kinetic equation. Dokl. AN SSSR 158 no.2: 298-301 S '64. (MIRA 17:10)

1. Chlen-korrespondent AN SSSR.

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L 8862-65 EWT(1)/EPA(w)-2/EEC(t)/EEC(b)-2/EWA(m)-2 Pab-24 ASD(a)-5/
ASD(f)/AEDC(a)/ESD(dp)/ESD(t)/RAEM(t)

ACCESSION NR: AP4045093 S/0020/64/158/001/0070/0073

AUTHOR: Struminskiy, V. V.

TITLE: The Hilbert method of solving the Boltzmann kinetic equation

SOURCE: AN SSSR. Doklady*, v. 158, no. 1, 1964, 70-73

TOPIC TAGS: kinetic equation, distribution function, Euler equation, approximation method

ABSTRACT: This paper is devoted to a clarification of the region of applicability of the ordinary Hilbert small parameter method (D. Hilbert, Math. Ann. v. 72, 562, 1912) for the solution of the Boltzmann equation. It is shown that in the general forms by Hilbert, the method leads to a singular structure of the distribution function, which results in the Euler equations in the zeroth approximation, and in inhomogeneous Euler equations (in place of the Navier-Stokes equations) in the first approximation. Higher approximations do not im-

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ACCESSION NR: AP4045093

prove the situation and also lead to inhomogeneous Euler equations. It is thus demonstrated that the possibilities of the ordinary small-parameter are highly limited. Only in some particular cases can the small-parameter method lead to a normal structure of distribution functions, characteristic of all the presently known approximate solutions of the kinetic equation. Orig. art. has: 19 formulas.

ASSOCIATION: None

SUBMITTED: 09Apr64 ENCL: 00

SUB CODE: MA NR REF SOV: 000 OTHER: 004

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L 3408-66 EWT(1)/EWP(m)/FCS(k)
ACCESSION NR: AP5023358

UR/0020/65/164/001/0066/0069

AUTHOR: Struminskiy, V. V. (Corresponding member AN SSSR)

TITLE: Laws of development and stabilization of aerodynamic disturbances

17
13

SOURCE: AN SSSR. Doklady, v. 164, no. 1, 1965, 66-69

TOPIC TAGS: hydrodynamic equation, aerodynamic disturbance, turbulence development, Landau equation

ABSTRACT: The nonlinear theories in the current literature of development and stabilization of aerodynamic disturbances are discussed. It is shown that the Landau theory (L. Landau, DAN, 44, 339, 1944) which is expressed by the approximate equation

$$\frac{d}{dt}|A|^2 = 2\gamma_1|A|^2 - \alpha|A|^4,$$

where γ_1 comes from linear theory and α = unknown constant, does not permit single-valued evaluation of the direction of disturbance development. It is also argued that the investigations of J. Stuart (J. Fluid Mech., 4, 1, 1958; 9, 3, 1960), J. Watson (J. Fluid Mech., 9, 3, 1960) and W. Eckhaus (J. Mechanique, 1, 4, 1962) derive the approximate Landau equation from the hydrodynamic equation but have not been able to evaluate the unknown constant which determines the

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ASSOCIATION:
SUBMITTED: 16Nov64
NO REF SOV: 007
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L 10295-66 EWT(d)/EWT(i)/EWA(m)-2 IJP(c)

ACC NR: AP5028272 SOURCE CODE: UR/0020/65/165/002/0293/0296

44,55

AUTHOR: Struminskiy, V. V. (Corresponding member AN SSSR)

ORG: none

30
B

TITLE: On the structure of solutions of a chain of equations in kinetic theory of gases

21,44,55

SOURCE: AN SSSR. Doklady, v. 165, no. 2, 1965, 293-296

TOPIC TAGS: rarefied gas dynamics, gas kinetic equation, Hamiltonian, approximation method, asymptotic expansion, velocity distribution function

ABSTRACT: The structure of the solution of a set of kinetic equations using the reduced distribution function concept is discussed. Starting with the Liouville equation, a reduced distribution function F_s is defined

$$F_s(t, x_1, \ldots, x_s) = V^s \int \cdots \int F_N \, dx_{s+1} \ldots dx_N$$

which, when applied to the Liouville equation, generates the BBGKY hierarchy

$$\frac{\partial F_s}{\partial t} = \mathcal{H}_s F_s + \frac{N-s}{V} \sum_{k=1}^{s} \iint U_{k,s+1} F_{s+1} \, dx_{s+1}.$$

The reversible or irreversible nature of this equation is discussed on the basis of a

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L 10295-66

ACC NR: AP5028272

more detailed analysis, a new distribution

small parameter expansion $\frac{N-s}{L} r_0^s$. For

function is defined by

$$f_1(t, x_1) = \frac{N}{V} F_1(t, x_1); \quad f_2(t, x_1, x_2) = \frac{N(N-1)}{V^2} F_2(t, x_1, x_2),$$

and the f_s are then expanded in powers of the small parameter r_0/λ. For $s \geq 2$, a

second expansion is made in powers of ε where

$$f_s(t) = f_s(t_1, x_1, \ldots, x_s, \omega_1, \ldots, \omega_s)$$

such that the distribution function f is represented in multiple time scales taking

into account fast as well as slow gas kinetic processes. This is accomplished by the

dependence of ω_k on t

$$\partial \omega_k / \partial t = \varepsilon A_k + \varepsilon^2 B_k + \varepsilon^3 C_k + \ldots.$$

Orig. art. has: 12 equations.

SUB CODE: 20/ 12 SUBM DATE: 08Jul65/ ORIG REF: 005/ OTH REF: 004

Card 2/2

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

L 45139-66 EWT(1)/EWT(m) IJP(c)

ACC NR: AP6024407 SOURCE CODE: UR/0020/66/169/001/0058/0061

27
B

AUTHOR: Struminskiy, V. V. (Corresponding member AN SSSR)

ORG: none

TITLE: Solution by series of the equations of the kinetic theory of gases

SOURCE: AN SSSR. Doklady, v. 169, no. 1, 1966, 58-61

TOPIC TAGS: gas kinetic equation, mathematic analysis

ABSTRACT: The article proposes a new method for solution of kinetic gas equations, and demonstrates mathematically that the distribution functions depend in a different manner on fast, reversible and slow irreversible processes. The basic series for the kinetic equations is written in the form:

$$\partial f_s / \partial t = H_s f_s + \varepsilon \iint V_{s+1} f_{s+1} \, dx_{s+1}, \qquad (1)$$

where ε is a small auxiliary parameter. It is assumed that

$$f_s = f_s^{(0)} + \varepsilon f_s^{(1)} + \varepsilon^2 f_s^{(2)} + \ldots, \qquad (2)$$

$$f_s(t) = f_s(t, x_1, \ldots, x_s, \omega_1, \ldots, \omega_s). \qquad (3)$$

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ACC NR: AP6024407

In this case, Equation (1) leads to the system of equations

$$\left(\frac{\partial f_s^{(0)}}{\partial t}\right)_\omega = H_s f_s^{(0)},$$
$$\left(\frac{\partial f_s^{(1)}}{\partial t}\right)_\omega = H_s f_s^{(1)} - A_k \frac{\partial f_s^{(0)}}{\partial \omega_k} + \iint W_{s+1} f_{s+1}^{(0)} dx_{s+1}, \qquad (4)$$
$$\cdots\cdots\cdots\cdots\cdots\cdots$$

where

$$\frac{\partial \omega_k}{\partial t} = \left(\frac{df_1}{dt}\right)_\xi = s \iint \underbrace{W_2(\xi, v_k, x_2) f_2(t, \xi, v_k, x_2)}_{\xi = r_k + v_k t} dx_2. \qquad (5)$$

The article proceeds to the solution of this system of equations by substitution of dimensionless variables and expansion into series. Orig. art. has: 22 formulas.

SUB CODE: 20/ 12/ SUBM DATE: 28Jul65/ ORIG REF: 004/ OTH REF: 002

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APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

[illegible], S [illegible]

Istoriya chernoy metallurgii v SSSR (The History of Ferrous Metallurgy in USSR) Moskva, Akademkniga, 1954-
v. tables.
At head of title: Akademiya Nauk SSSR.
Bibliographical footnotes.
Lib. has: v. 1

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615.4
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APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMINSKIY, V. YA.

N/5
831.1
.K8
1953

Ocherki po istorii nachal'nogo obrazovaniya v Rossii (Outline history of elementary education in Russia, by) N. A. Konstantinov (i) V. Ya. Struminskiy. 2. izd., ispr. i dop. Moskva, Uchpedgiz, 1953.

271 p. illus., ports.

At head of title: Akademiya Pedagogicheskikh Nauk RSFSR.

Bibliographical footnotes.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUKOV, A. I. (Chief. of Vet. Inst.)

"Sanitary evaluation of drinking water."

SO: Veterinariya 28 (7), 1951, p. 49

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, A.I., kandidat veterinarnykh nauk.

Polyavitaminosis in swine. Veterinariia 31 no.6:33-37 Je '54. (MLRA 7:6)

1. Genicheskaya mezhrayonnaya vetbaklaboratoriya Khersonskoy oblasti.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, A. I. (Cand. of Vet. Sci.)

"Anaerobic enterotoxemia of sheep." (A review)

SO: Vet. 25 (7), 1948, p 22

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUKHE, A. I. (Cand. of Vet. Scis.)

Polyavitaminosis of swine.

SO: TABCON Veterinariya, Vol. 31; No. 6; June 1954 Unclassified.

Genicheskaya interrayon veterinary bacteriological laboratory, Kherson oblast.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, A.I.

22619. STRUMPE, A.I. Sanitarnaya otsenka pit'yevoy vody. Avtoreferat. Veterinariya 1949, No. 7. S. 4[illegible]

SO: LETOPIS' No. 2[illegible], 1949

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, A. I.

USSR/Medicine - Veterinary

Card 1/1

Author : Strumpe, A. I., Candidate of Veterinary Sciences

Title : Polyavitaminosis of hogs

Periodical : Veterinariya, 6, 33-37, June 1954

Abstract : Results of 20 years of observation revealed that polyavitamonosis in hogs is an acute, lingering disease; it affects a large number of hogs of all ages mainly during winter and spring. The disease often occurs in hogs that have been fed rations deficient in vitamins. Hogs deficient at birth are usually slow to develop, suffer from a physical deformity, and often fail to survive. Organism of hogs which have been weakened by vitamin deficiency becomes susceptible to disease, particularly to erysipelas, even after they are vaccinated against the disease with immune serum. Understanding the conditions under which vitamin deficiency is likely to occur and prompt recognition of early symptoms of the deficiency are essential in order to eliminate losses caused by polyavitaminosis.

Institution : Genicheskaya Interrayon Veterinary Bacteriological Laboratory, Khersonskaya Oblast

Submitted : The report was read at the 6th interschool scientific-industrial conference of the Veterinary Institute, Kiev, May 26-28, 1952

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, P.I., otvetstvenny red.; NOVIKOV, A.F., kand.tekhn.nauk, nauchnyy red.; RANIS, A.A., red.; TOTOK, A.G., red.; DROZHZHINA, L.P., tekhn. red.

[Preserving pile timbers from marine borers and rotting] Antiseptirovanie gidrotekhnicheskogo svainogo lesa protiv morskikh drevotochtsev i gnieniia. Leningrad, Izd-vo "Morskoi Transport," 1958. 84 p. (Leningrad. TSentral'nyi nauchno-issledovatel'skii institut morskogo flota. Trudy no.18) (MIRA 11:11)

(Wood--Preservation) (Piling (Civil engineering))

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, P.I., kand.tekhn.nauk, red.; OSMOLOVSKIY, A.K., kand.tekhn.nauk, nauchnyy red.; TOTOK, A.G., red.; KOTLYAKOVA, O.I., tekhn.red.

[Method of calculating strength of merchant ships] Metodika rascheta prochnosti morskikh transportnykh sudov.(Leningrad, Izd-vo "Morskoi transport", 1958. 127 p. Leningrad. TSentral'nyi nauchno-issledovatel'skii institut morskogo flota. Trudy no. 17) (MIRA 11:11)

(Ships)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, Petr Ivanovich, kand.tekhn.nauk; YAKUSHENKOV, Andrey Andreyevich, kand.tekhn.nauk; STROMYATNIKOV, Viktor Fedorovich, kand.tekhn.nauk; RAPOPORT, Leonid Il'ich, kand.tekhn.nauk; MELESHKIN, Georgiy Aleksandrovich, kand.tekhn.nauk; MIROSHNICHENKO, Il'ya Petrovich, kand.tekhn.nauk; ARAKELOV, Vladimir Mikhaylovich, inzh.; SKOMOROVSKIY, Rostislav Vsevolodovich, kand.tekhn.nauk; PESOCHINSKIY, Viktor Nikolayevich, kand.tekhn.nauk; NELIDOVA, E.S., red.; TIKHONOVA, Ye.A., tekhn.red.

[Over-all mechanization and automatization in the merchant marine] Kompleksnaia mekhanizatsiia i avtomatizatsiia na morskom transporte. Pod obshchei red. P.I.Strumpe. Moskva, Izd-vo "Morskoi transport," 1959. 95 p. (MIRA 13:5)

(Merchant marine--Equipment and supplies)
(Cargo handling--Equipment and supplies)
(Automatic control)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

BARDINA, V.; ZOBACHEV, Yu.; KUZNETSOV, V.; SHCHERBAKOV, P.; STRUMPE, P.I., kand. tekhn.nauk, otv.red.; ARAKELOV, V.M., nauchnyy red.; PRESMAN, D.Ya., red.; FRISHMAN, Z.S., red.izd-va; KOTLYAKOVA, O.I., tekhn.red.

[Protection of tanks used on oil tankers] Protektornaia zashchita tankov neftenalivnykh sudov. Leningrad, Izd-vo Morskoi.transport. 1959. 47 p. (Leningrad. tsentral'nyi nauchno-issledovatel'skii institut morskogo flota. Trudy no.24) (MIRA 12:5)
(Tank vessels) (Tanks) (Corrosion and anticorrosives)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, P.I.

GLIKMAN, L.A.; KOSTROV, Ye.N.; SUPRUN, L.A.; YELIN, I.A.; SHCHERBAKOV, P.S.; ZOBACHEV, Yu.Ye.; DOBRER, V.K.; STRUMPE, P.I., kand.tekhn.nauk, otv. red.; ARAKELOV, V.M., nauchnyy red.; BAMA, N.G., red.; KOTLYAKOVA, O.I., tekhn.red.

[Organization and technology of ship repair; corrosion and mechanical strength of metals] Organizatsiia i tekhnologiia sudoremonta; voprosy korrozionno-mekhanicheskoi prochnosti metallov. Leningrad, Izd-vo Morskoi transport 1959. 76 p. (Leningrad. tsentral'nyi nauchno-issledovatel'skii institut morskogo flota. Trudy no.22) (MIRA 12:5)
(Metals--Testing) (Corrosion and anticorrosives)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, P.I., kand.tekhn.nauk; SYROMYATNIKOV, V.F., kand.tekhn.nauk, nauchnyy red.; YAKUSHENKOV, A.A., kand.tekhn.nauk, nauchnyy red.; FOMICHEV, A.G., spetsred.; KOTLYAKOVA, O.I., tekhn.red.

[Over-all automatic control on seagoing ships] Kompleksnaia avtomatizatsiia morskikh sudov. Pod obshchei red. P.I.Strumpe. Leningrad, Izd-vo "Morskoi flot," 1960. 178 p. (MIRA 14:4)

1. Russia (1923- U.S.S.R.) Ministerstvo morskogo flota.
2. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota (for Strumpe, Syromyatnikov, Yakushenkov).
(Ship handling) (Automatic control)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

AFANAS'YEV, Konstantin Arkad'yevich, inzh.; GRECHIN, Modest Alekseyevich, inzh.; KORCHAGIN, Mikhail Ivanovich, kand.tekhn.nauk; LOGINOV, Sergey Petrovich, kand.ekon.nauk; MIROSHNICHENKO, Il'ya Petrovich, kand.tekhn.nauk; RAPOPORT, Leonid Il'ich, kand.tekhn.nauk; SYROMYATNIKOV, Viktor Fedorovich, kand.tekhn.nauk. Prinimali uchastiye: RAYEVSKAYA, Ye.A., inzh.; GRIGOR'YEV, Ya.I., inzh. STRUMPE, P.I., red.; MARCHUKOVA, M.G., red.izd-va; LAVRENOVA, N.B., tekhn.red.

[Modernization of seagoing cargo vessels] Modernizatsiia morskikh transportnykh sudov. Pod obshchei red. P.I.Strumpe. Moskva, Izd-vo "Morskoi transport," 1960. 306 p. (MIRA 14:1)

(Freighters--Equipment and supplies)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, F.I., kand. tekhn. nauk, otv. red.; DR[illegible], [illegible], kand. tekhn. nauk, nauchn. red.; KHABUR, [illegible], inch., nauchn. red.; GOROBETS, V.A., red.

[Basic research] Osnovnye nauchnye issledovaniia. Leningrad, Izd-vo "Morskoi transport," 1961. 107 p. (MIRA 17:10)

1. Leningrad. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota. 2. Direktor TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota, Leningrad (for Strumpe).

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, P., kand.tekhn.nauk

Science is being called upon to serve the merchant marine. Mor. flot 21 no.10:16-19 O '61. (MIRA 14:9)

1. Direktor TSentral'nogo nauchno-issledovatel'skogo instituta mekhanicheskoy obrabotki dereva.
(Merchant marine—Technological innovations)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, P.I., kand.tekhn.nauk, otv.red.; KHABUR, B.P., inzh., nauchnyy red.; SUSHKOVA, T.I., red.; KOTLYAKOVA, O.I., tekhn.red.

[Economic aspects and operation of the merchant marine; present state and trends in the expansion of the marine passenger fleet in capitalist countries] Ekonomika i ekspluatatsiia morskogo flota; sovremennoe sostoianie i tendentsii razvitiia morskogo passazhirskogo flota kapitalisticheskikh stran. Leningrad, Izd-vo "Morskoi transport," 1961. 67 p. (Trudy, no.33). (MIRA 14:8)
(Steamboats--Passenger accomodations) (Shipbuilding)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, P., kand.tekhn.nauk

Problems of the future fleet and its automation. Mor. flot 21 no. 6:1-5 Je '61. (MIRA 14:6)

1. Direktor TSentral'nogo nauchno-issledovatel'skogo insituta morskogo flota.
(Merchant marine) (Automation)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, P.I., kand. tekhn. nauk, otv. red.; OSMOLOVSKIY, A.K., kand. tekhn. nauk, nauchnyy red.; SUSHKOVA, T.I., red.; KOTLYAKOVA, O.I., tekhn. red.

[Guide to the control of a ship's seaworthiness by the ship's personnel and by means available on board]Rukovodstvo po nabliudeniiu za morekhodnost'iu sudna silami i sredstvami sudovogo sostava. Leningrad, Izd-vo "Morskoi transport," 1962. 22 p. (MIRA 16:1)

1. Leningrad. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota. 2. Direktor TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota (for Strumpe). 3. Chlen prezidiuma Leningradskogo Basseynovogo pravleniya Nauchno-tekhnicheskogo otdela vodnogo transporta (for Osmolovskiy).
(Ship propulsion) (Stability of ships)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

LEVIN, B.M., kand. tekhn. nauk; PERSHIKOV, L.F.; GOL'DENFON, A.K., kand. tekhn. nauk; AFANAS'YEV, K.A.; STRUMPE, P.I., kand. tekhn. nauk, otv. red.; SUSHKOVA, T.I., red.; KOTLYAKOVA, O.I., tekhn. red.

[Methods of testing thermodynamic processes in marine steam turbine plants] Metodika teplotekhnicheskikh ispytanii sudovykh paroturbinnykh ustanovok. Leningrad, Izd-vo "Morskoi transport," 1962. 118 p. (MIRA 16:9)

1. Leningrad. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota.

(Steam turbines, Marine)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

SHUMIE, P.I., kand. tekhn. nauk, otv. red.; ZAGORSKAYA, Ye.P., kand. tekhn. nauk, nauchn. red.; RANIS, A.A., red.; SIUL'CHIKOVA, N.P., tekhn. red.

[Industrial safety and the improvement of working conditions in the merchant marine] Tekhnika bezopasnosti i uluqhshenie uslovii truda na morskom flote. Leningrad, Izd-vo "Morskoi transport," 19631 96 p. [Issued "instead of" Its: Trudy, no.40] (MIRA 16:12)

(Merchant marine--Safety measures)
(Merchant seamen--Diseases and hygiene)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9"

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

[illegible], [illegible], kand.tekhn.nauk, [illegible] nauchnyy red.; [illegible], kand.[illegible], [illegible], [illegible], V.A., kand.voyen.-morskikh [illegible], red.; [illegible], [illegible], kand.tekhn.nauk, red.; [illegible], kand.tekhn.nauk, red.; KURZON, A.G., doktor tekhn.nauk, red.; [illegible], N.A., kand.tekhn.nauk, red.; [illegible], kand.tekhn. nauk, red.

[Automation of power plants on [illegible] merchant ships.] Avtomatizatsiia silovykh ustanovok [illegible] transport [illegible] sudov. Leningrad, Izd-vo "Morskoi transport" [illegible] 3 p. (Leningrad, TSentral'nyi nauchno-[illegible]-vatel'skii institut morskogo flota. Informatsionnyi sbornik, no. [illegible] [illegible])

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GOLOVIZNIN, A.M., kand.tekhn.nauk; GOL'DENFON, A.K., kand.tekhn.nauk; GRIGOR'YEV, G.T.; KORNYAYEV, Yu.T.; SRABOV, K.Ye.; STRUMPE, P.I., kand.tekhn.nauk, otv.red.; DRANITSYN, S.N., kand.tekhn.nauk,red.; GOROBETS, V.A., kand.voyen.-morskikh nauk, red.; YEVREINOV, I.V., kand.tekhn.nauk; KORCHAGIN, M.I., kand.tekhn.nauk; KURZON. A.G. doktor tekhn.nauk; MIROSHNICHENKO, I.P. kand.tekhn.nauk; ROZHDESTVENSKIY, N.A., kand.tekhn.nauk; SYROMYATNIKOV, V.F., kand.tekhn.nauk; BAMA, N.G., red.; STUL'CHIKOVA, N., tekhn.red.

[Marine nuclear steam turbine plants.] Sudovye iadernye proturbinnye ustanovki. Leningrad. Izd-vo "Morskoi transport," 1963. 135 p. Leningrad, TSentral'nyi nauchno-issledovatel'skiy institut morskogo flota. Informatsionnyi sbornik, no. 77/78. Tekhnicheskaia ekspluatatsiia morskogo flota, no. 15/16). (MIRA 17:2)

1. Sotrudnik TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota (for Goloviznin, Gol'denfon, Grigor'yev, Kornyayev, Srabov).

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STRUMPE, P.

Increase the role of scientific and technological societies in scientific institutions. NTO 6 no.1:27-28 Ja '64. (MIRA 17:2)

1. Direktor TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota.

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L 09050-67

ACC NR: AR6032251 (N) SOURCE CODE: UR/0398/66/000/006/A004/A004

AUTHOR: Strumpe, P. I.; Miroshnichenko, I. P.; Krayev, V. I.; Fel'dman, I. A.

TITLE: Future types of transport ships and the basic problems of improving their technical operating characteristics

6

SOURCE: Ref. zh. Vodnyy transport, Abs. 6A18

REF SOURCE: Tr. Tsentr. n.-i. in-ta morsk. flota, vyp. 67, 1965, 3-11

TOPIC TAGS: ship, tanker, transport ship

ABSTRACT: Tables present the main measurements and characteristics of the basic types of transport vessels proposed by the TSNIIMF for use in the near future (1966—1970) in the Soviet maritime fleet. It is proposed that seven universal types of general cargo vessels be built with dwt of 1000—15,800 tons, two types of ore and coal carriers with dwt of 13,000 and 21,000 tons, and three types of tankers with a dwt of 4500 tons. The conditions are presented upon which the design of these ships is based, and the basic scientific problems of the development of the transport fleet, which must be solved in the near future are examined. [Translation of abstract]

SUB CODE: 13/

UDC: 629.123.2.004.6

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, P. kand.tekhn.nauk

Place the technical operation of the fleet on a scientific basis. (MIRA 18:2)
Mor.flot 25 no.1:24-25 Ja '65.

1. Direktor TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota.

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUMPE, P.I. kand. tekhn. nauk

Improve the quality and increase the reliability of seagoing vessels. Mor. flot 25 no.11:31-33 N '65. (MIRA 18:11)

1. Direktor TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota.

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STRU[illegible]F, [illegible].

[illegible]teresting patterns from the 1957 International Congress of Fashion in Moscow.

[illegible]. ([illegible] [illegible]raha, Czechoslovakia) Vol. 12, no. 9, Sept. 1957

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

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUNA, A.

"General technical terminology in closer discussion." p. 271. (Nova Proizvodnya. Vol. 4, no. 3/4, Sept. 1953. Ljubljana.)

SO: Monthly List of East European Accessions. Vol. 3, no. 3. Library of Congress. March 1954. Uncl.

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[illegible]

[illegible] May 19[illegible], L[illegible]ljana, [illegible]oslavia)

[illegible]: [illegible] Eas[illegible] [illegible]ccessi[illegible]ns, ([illegible]), [illegible], [illegible] 1 [illegible] 55, [illegible].

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

YUGOSLAVIA / Chemical Technology. Chemical Products and Their Applications. Chemical Processing of Natural Gases and Petroleum. Motor and Rocket Fuel Lubricants. H-23

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 9790.

Author : Strugs, A.
Inst : Not given.
Title : The Role of Chemical and Mechanical Methods in Testing Lubricating Materials Under Operating Conditions.

Orig Pub: Zast. Mater., 1958, 6, No 4, Podmazivanje, 1, No 2, VI-11--VI-13.

Abstract: A review. In characterizing methods for testing motor oils with admixtures, it is noted that many of their properties are insufficiently studied and require further investigation. Bibl. 6 refs.

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUNA, I.

30(7)

AUTHOR: Veličković, [illegible]

TITLE: The Twelfth Special [illegible] of the World Power Conference

PERIODICAL: Tehnika, 1959, Nr 1, [illegible]

ABSTRACT: The Twelfth Special [illegible] of the World Power Conference was held from [illegible] 1958 in Montreal. The [illegible] of this Organization was held in [illegible] the theme of the Twelfth Special [illegible] "Economic [illegible] in the Production, [illegible] Utilization of Fuel and Power". Various [illegible] delegates from various countries [illegible] Poland, CSR, and Yugoslavia. The [illegible] delegates were [illegible] Feldman on "Economic Principles [illegible] the Guaranteed Capacities of Hydropower Plants" [illegible] Tchitchenko and [illegible] Smirnov on "[illegible] Inter-Connected

Card 1/3

"Electric Power Network in the USA, its Significance for the National [illegible] and its Economic Indices"; D. Tarnov and [illegible] on "Efficiency of Fuel Utilization in [illegible]" [illegible] and [illegible] Shurov on "Economic [illegible] Use of Electric Power in Agriculture" [illegible] on "Technical and Economic Problems [illegible] Electric Power to Villages". The [illegible] delegates presented the following papers: Professor [illegible] "Determining the Upper Limit of Mineral [illegible] Above Which Extraction is Profit[illegible] and the [illegible] of Mineral Impurities on the [illegible] Process" and [illegible] on "Analysis of the [illegible] Turbines with Extraction in an [illegible] System". The USA papers were: [illegible] Kral on [illegible] Cycle with Supplementary Fuelling [illegible] on "Economic Review of the Plans [illegible] Thermal Power Plants for Power

Card 2/3

and Heating". [illegible] presented the following papers [illegible] Hilcke on "Installed Capa[illegible] Power Plants and the [illegible] Resources"; Professor [illegible] Kraus of Utilization [illegible] History of Water Turbine and Engineer [illegible] Lihadlovic and [illegible] Construction [illegible] in Yugoslav Thermal Power Plants" [illegible] on "A Supplement to the Calculation of [illegible] Production and Transmission Costs".

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[illegible], [illegible].

[illegible] friction, lubrication, wear. ([illegible]) p. [illegible].

[illegible] (Ljubljana, [illegible] v Ljubljani, [illegible] in [illegible])
[illegible], Yugoslavia
[illegible]

Monthly list of Eastern European Accession Index ([illegible]) [illegible] vol. , No. 11
November [illegible]
[illegible].

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUNA, Albert, ing., prof.

Czechoslovak and Yugoslav water-wheel industry; some comparative construction data. Stroj vest 6 no.1:21-25 Ja '60. (EEAI 10:5)

1. Clan urednistva, Strojniski vestnik, Ljubljana.
(Czechoslovakia--Water wheels)
(Yugoslavia--Water wheels)

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUNA, Albert, prof., ing.

First symposium on the Slovenian technical terminology. Stroj vest 6 no.6:187 D '60. (EEAI 10:6)

1. Urednistvo, Strojniski vestnik.
(Technology) (Slovenian language)

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUNA, Albert, mech. eng., prof.

What is the matter with extraordinary studies. Stroj vest 7 no.1: 9-10 Ja '61. (EEAI 10:9)

1. Faculty for Mechanical Engineering, University of Ljubljana; "Strojniski vestnik", clan urednistva.

(Mechanical engineering)

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUNA, Albert, prof.inz.

"Corrosion of materials through pitting." Reviewed by A.Struna. Stroj vest 9 no.1/2:30 Ap '62.

1. Clan Urednistva, "Strojniski vestnik."

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610019-9

STRUNA, Albert, prof.inz.

"Hydraulic changer of rotatory moment and hydraulic coupling" by R.Lusar. Reviewed by A.Struna. Stroj vest 8 no.1/2:30 Ap '62.

1. Clan Urednistva, "Strojniski vestnik."

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