CIA-RDP86-00513R001757320006-0

Use of empirical constants ...

S/089/62/012/004/005/014 B102/B104

discussions. There are 4 figures, 5 tables, and 20 references: 9 Soviet and 11 non-Soviet. The four most recent references to English-language publications read as follows: G. Chapman, C. Storrs. Effective Neutron Removal Cross Sections for Shielding, Report AECD-3978, 1955; M. Clark. Nucl. Engng. <u>6</u>, No. 56, 16, 1961; D. Wood. Nucl. Sci. Engng. <u>5</u>, 45, 1959; J. Grundl, A. Usner. Nucl. Sci. Engng, <u>8</u>, 598, 1960.

SUBMITTED: April 17, 1961

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ERODER, D.L., red.; VESELKIN, A.P., red.; YEGONOV, Yu.A., red.; ORLOV, V.V., red.; TSYPIN, S.G., red.; FODOSHVINA, V.A., red.; NIKITINA, T.K., red.; VLASOVA, N.A., tekhn. red.

公式》:"你们的你们的。" 第二章

[Problems in the physics of reactor shielding] Voprosy fiziki zashchity reaktorov; sbornik statei. Moskva, Gosatomizdat, 1963. 345 p. (MIRA 16:12) (Nuclear reactors--Shielding (Hadiation))

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•	ACCESSION NR: AT4019058	\$/0000/63/000/0243/023
	AUTHOR: Tsy*pin, S. G.	and the state of t
•	and of a unidirectional	the passage of neutrons through a shlelding with the source (apparatus B-2)
	SOURCE: Voprosy* fizik physics of reactor shie	I zashchity* reaktorov; sbornik statey (Problems in Iding; collection of articles). Moscow, Gosatomizdat,
	TOPIC TAGS: reactor sh neutron beam attenuatio	ielding, nuclear reactor, unidirectional source, neutron, n, collimator, nickel shield, attenuation function, , tion, neutron angular distribution
	ABSTRACT: The purpose beam from a pointlike u the attenuation function ation function for a so obtain data on the dist	of this work was to study the attenuation of a neutron inidirectional source of monoenergetic neutrons. Knowing on of this source, it is possible to construct the attenu- purce with an arbitrary angular distribution, and thus tribution of neutrons in shielding materials. An experi- tructed around the BR5 fast neutron reactor to obtain the to create a model of an infinitely planar unidirectional tal B-2 apparatus consists of a channel with a mobile frame
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ACCESSION NR: AT4019058 and AS + 240 000 0 0 do · e are then compared with the experimental results for attenuation of neutrons in water, iron and uranium. In general, there was good agreement between calculated and experimental date. The author thanks A. I. Leypunskiy for his advice in set-ting up the problem, I. I. Bondarenko, V. V. Orlov, V. I. Kukhtevich, Yu. A. Kazanskiy, B. I. Sinitsy*n, Ye. S. Matusevich, B. P. Shemetenko, Sh. S. Nikolyayshvili, V. P. Mashkovich and A. A. Abagyan for their comments and evaluation of the results, D. S. Pinkhasik and N. N. Aristarkhev for help in building the apparatus, and V. A. Dulin and L. K. Fometskiy for contributing to the data." Orig. art. has: 2 tables, 7 figures and 10 formulas. ASSOCIATION: none SUBNITTED: 14Aug63 DATE ACQ: 27Feb6 ENCL: 00 SUB CODE: NF NO REF SOV: OTHER: 003 Card 1.1

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The spectrum

ACCESSION NR: AT4019033

S/0000/63/000/000/0075/0085

AUTHOR: Sinitsy*n, B. I.; Tsy*pin, S. G.

TITLE: The use of empirical data in shielding computation

SOURCE: Voprosy*fiziki zashchity* reaktorov; sbornik statey (Problems in physics of reactor shielding; collection of articles). Moscow, Gosatomizdat, 1963, 75-85

TOPIC TAGS: nuclear reactor, reactor shielding, neutron, neutron distribution, removal cross section

ABSTRACT: The authors note that the use of removal cross sections for neutron shielding computation is still the simplest and most efficient method, with the result that it continues to be developed further. The present article represents an attempt to summarize the results of work relating to the determination and utilization of removal cross sections, to evaluate them critically, as well as to expand the area of applicability of empirical constants for the computation of various forms of neutron shielding. Basic definitions are given and formulas are derived for removal cross sections for both homogeneous and heterogeneous media. Monoenergetic neutron sources and fission spectrum neutron sources are considered. The removal cross sections for certain elements measured with detectors having different thresholds are compared with one another and with sections obtained from Cord 1/2

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ຸມ	UTHOR: Mashkovich, V		-	000/000/0182/01	190	
		'. P.; Sakharov				1
TI			v, V. K.; <u>T</u> sy	pin, S. G.		
	TLE: Spatial-energy d	istribution of n	eutrons in thic	ck layers of iron		
SC re)URCE: Voprosy* fizik eactor shielding; collect	i zashchity* re ion of articles)	aktorov; sbor . Moscow, G	nik statey (Probl osatomizdat, 19	lems in physics (63, 182–190	
fu	OPIC TAGS: neutron er nction, neutron spatial eutron spectrum	lergy distributi distribution, n	lon, iron priss eutron, react	n, relaxation le or shielding, iro	ngth, attenuation n shielding,	
A ir er sj	BSTRACT: The spatia con was studied because ncy of existing data. A pectrum was determine eutron beam was direct	BR-5 reactor t d on 200µ thick ed onto an iron	was used as a photographic prism (dimen	neutron source film with type K sions 1320 x 136 diameter. The	and the neutron emulsion. The 0x 1880 mm) after angular diverge	er ence
p o W	f the beam was 5°. For vere used: Sn ³² (n, p) P ³²	detection of fa , Mg ²⁴ (n, p,)	Na ²⁴ , A1 ²⁷ (the following thr n, α Na ²⁴ , and a	eshold detectors Th ²³² fission	
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ACCESSION NR: AT4019046 chamber; for intermediate neutrons: a BF3 counter type SNM-3, $\operatorname{Cu}^{63}(n, \gamma) \operatorname{Cu}^{64}$, and the indicator Au ¹⁹⁷ (n, ζ) Au. ¹⁹⁸ Detectors were placed at various distances r from the source and at different heights perpendicular to the beam. Counting rates from tin and aluminum detectors and the thorium chamber as a function of height for different distances r were evaluated separately. The spatial distribution as a function of height at fixed r as registered by copper and gold indicators and a boron counter is given in Fig. 1 of the Enclosure. Neutron attenuation for an infinite planar undirectional neutron source was given by the equation $\int_{G_{\infty p}} (r)C = \int_{\sigma}^{G_{DM}} G_{DM}(r,h)hdh$ and is shown in Fig. 2 of the Enclosure as determined by Cu, Au and BF3. Relaxation lengths as measured by different detectors and calculated values of asymptotic cross-sections in the transport approximation for several energy groups are tabulated in the original paper. "The authors are indebted to O. I. Leypunskiy and V. V. Orlov for valuable comments during this work". Orig. art. has: 11 figures, 3 tables and 1 formula. ASSOCIATION: None SUBMITTED: 14Aug63 DATE ACQ: 27Feb64 ENCL: 02 OTHER: 004		
the indicator Au ¹³⁺ (n, χ) All. 150 Detectors were photon. Counting rates from tin and source and at different heights perpendicular to the beam. Counting rates from tin and aluminum detectors and the thorium chamber as a function of height for different distances r were evaluated separately. The spatial distribution as a function of height at fixed r as registered by copper and gold indicators and a boron counter is given in Fig. 1 of the Enclosure. Neutron attenuation for an infinite planar unidirectional neutron source was given by the equation $\int_{G} \int_{OD} (\mathbf{r}) \mathbf{C} = \int_{O}^{O} G_{DM}(\mathbf{r}, \mathbf{h}) \mathbf{h} \mathbf{dh}$ Enclosure as determined by Cu, Au and BF ₃ . Relaxation lengths as measured by different detectors and calculated values of asymptotic cross-sections in the transport approximation for several energy groups are tabulated in the original paper. "The authors are indebted to O. I. Leypunskiy and V. V. Orlov for valuable comments during this work". Orig. art. has: 11 figures, 3 tables and 1 formula. ASSOCIATION: None SUBMITTED: 14Aug63 DATE ACQ: 27Feb64 ENCL: 02 OTHER: 004	\overline{D} \overline	•
Enclosure as determined by Cu, Au and BF3. Relaxation lengths as measured by different detectors and calculated values of asymptotic cross-sections in the transport approximation for several energy groups are tabulated in the original paper. "The authors are indebted to O. I. Leypunskiy and V. V. Orlov for valuable comments during authors work". Orig. art. has: 11 figures, 3 tables and 1 formula. ASSOCIATION: None SUBMITTED: 14Aug63 DATE ACQ: 27Feb64 ENCL: 02 OTHER: 004	the indicator Au ¹³ (n, ζ) Au. 100 Detectors were photon of counting rates from tin and source and at different heights perpendicular to the beam. Counting rates from tin and aluminum detectors and the thorium chamber as a function of height for different distances r were evaluated separately. The spatial distribution as a function of height at fixed r as registered by copper and gold indicators and a boron counter is given in Fig. 1 of the Enclosure. Neutron attenuation for an infinite planar unidirectional neutron source was given by the equation $G_{\infty p}(r)C = \int G_{DM}(r, h)hdh$ and is shown in Fig. 2 of the	•
SUBMITTED: 14Aug63 DATE ACQ: 27Feb64 ENCL: 02	Enclosure as determined by Cu, Au and BF3. Relaxation lengths as measured by different detectors and calculated values of asymptotic cross-sections in the transport approximation for several energy groups are tabulated in the original paper. "The authors are indebted to O. I. Leypunskiy and V. V. Orlov for valuable comments during this work". Orig. art. has: 11 figures, 3 tables and 1 formula.	
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DARUGA, V. K.; LAZUTKIN, I. 1.; NIKOLAYEV, A. N.; PINKHASIK, D. M.; SAKHAROV, V. K.; SINITSYN, B. 1.; TSYPIN, S. G.

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Space-energy distribution of neutrons from a BR-5 reactor in an iron-ore medium. Atom. energ. 17 no.1:63-65 J1 '64. (MIRA L7:7)

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ACCESSION NR: AP4042266

s/0089/64/017/001/0065/0066

AUTHORS: Mashkovich, V. P.; Nikolayev, A. N.; Sinitsy*n, B. I.; Tsy*pin, S. G.

TITLE: Attenuation of fission neutron fluxes in iron-water mixtures

SOURCE: Atomnaya energiya, v. 17, no. 1, 1964, 65-66

TOPIC TAGS: neutron moderator, neutron flux, fast neutron, thermal neutron, relaxation time

ABSTRACT: The attenuation of fast, thermal, and intermediate neutrons in iron-water mixtures was investigated at an iron concentration exceeding 75% by volume. The measurements were made in the B-2 installation of the BR-5 reactor (A. I. Leypunskiy et al., in the book "Trudy* Vtoroy mezhdunarodnoy konferentsii po mirnomu ispol'zovaniyu atomnoy energii" [Trans. 2d Geneva Conf.], Papers by Soviet Scientists, v. 2, M. Atomizdat, 1959, page 215) for shielding inves-

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tigation (S. G. Tsy*pin, collection "Voprosy* fiziki zashchity* reaktorov" (Problems in Reactor Shielding Physics), D. L. Broder, et al., ed. 1963, page 243). The iron-water constituted iron stacks measuring 1320 x 1360 x 117 mm, placed with certain gaps in a tank full of water measuring 1370 x 1390 x 2170 mm. The iron used was St-O with density 7.86 g/cm^2 . The iron concentration in the water could be varied by varying the gap. The method for measuring the relaxation length is described. The results show that at concentration up to 18% of water by volume the efficiency for slowing down fast, thermal, and intermediate neutrons is approximately the same. In addition, the results agree with data on an iron-masonite mixture (D. Wood, Nucl. Sci. Eng. v. 5, 45, 1959). / It is also concluded that in the case of light and medium nuclei (including iron), the removal cross sections can be used for shielding calculations if the number of hydrogen atoms in the mixture is about 10--12%. This value is almost half that recommended by B. Price et al. (Shielding Against Nuclear Radiation, Moscow, Izd-vo inostr. lit., 1959). Orig. Card 2/4

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UTHOR: Daruga, V. K., Nikolayev	, A. N.; Pinkhasik, D. S.; Sinitsy*n,	B. I.;
sy*pin, S. G. TTLE: Study of passage of fast neutr	rons through sodium	•
OURCE: Atomnaya energiya, v. 17,	no. 2, 1984, 145-146	
OPIC TAGS: fast neutron range, ne roton recoil counter	eutron range, sodium, neutron detecto	1
han 0.5 Mev energy in a sodium pris- nents were made in the B-2 arrange: Atomnaya Energiya 12, 300 (1962)). $S^{32}(n,p)P^{32}$, $Mg^{24}(n,p)Na^{24}$, and a crons with energy 3 Mev, measure	mined the ranges for neutrons of great sm of 13 x 1370 x 18 mm. The mean ment of the BP-15 reactor (see C. G. Detectors used were $A1^{27}$ (n,) Na proton recoil counter. The ranges for id with the first three detectors were a recoil counter gave 40 cm. "The author is help with the experimental arrangem	Tsypn r neu- about the ors are
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	V. Kurchatov (Institut atomnoy energii)
OURCE: Zhurnal eksperimental'noy i te rilozheniye, v. 3, no. 6, 1966, 247-25	oreticheskoy fiziki. Pis'mu v redaktsiyu. O
OPIC TAGS: plasma heating, plasma ins ture	tability, plasma charged particle, ion temper-
erved in experiments on plasma in cros 602, 1960) can be due to instabilities by. To this end the authors consider ow particle temperature is situated in and magnetic (longitudinal) fields, and electric field. The behavior of such a ydrodynamics and is analyzed for unsta- lensity gradient is not too high, and w collowing interpretation is offered for	tion was to check whether the ion heating ob- sed fields (M. S. Ioffe et al., ZhETF v. 39, that cannot be described by the adiabatic the- an idealized problem in which a plasma with mutually perpendicular static electric (radial) is subject to a potential perturbation of the plasma is described in terms of two-fluid ble oscillations in two cases, when the plasma hen the plasma inhomogeneity is strong. The the ion heating in the experiments of Ioffe g from the finite mass of the ions causes the

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21567-66 ACC NR: AP6008749 electrons and ions to drift in the crossed fields with different velocities. The relative motion of the plasma components leads to an instability, whose increment is comparable with or larger than the ion-cyclotron frequency, and with a maximum of the order of the ion Langmuir frequency. The instability develops until the ion velocities due to the fluctuating fields become of the same order as the difference between the electron and ion drift velocities. Owing to the random phases of the fluctuations, the energy acquired in this manner is retained by the particles even after the electric field that had initiated the instabilities is switched off. Although the ion acceleration may possibly be connected with some other instability which lies beyond the sope of the assumed theoretical model, the instability considered by the authors can have a bearing also on other experiments, in which the radial electric field is produced artificially or spontaneously. Orig. art. has: 1 formula. SUBM DATE: 03 Feb66/ SUB CODE: 20/ ORIG REF: 002 Card 2/2

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in an and the second of the second ٦ TSYPIN, Ya., inzh. Organization of roadsteads. Rech. transp. 19 no. 2:5-7 F 160. (MIRA 14:5) (Inland water transportation)



TSYPIN, YA. YE

Social Sciences

Prakticheskoe posoble dispetcheru divzhenija recunoço flota. (Practical handbook for the dispetcher of a river fleet) Koskva, Rechizdat, 1951.

9. <u>Monthly List of Russian Accessions</u>, Library of Congress, <u>August</u> 1953. Unclassified.

APPROVED FOR RELEASE: 08/31/2001

IRMHIN, Aleksandr Petrovich, kand.tekhn.nauk; TERPICHEV, Mikhail Ivanovich, inzh.; <u>TSTPIN, Vakov Iavgen!yevich</u>, inzh.; TIKHOMIROVA, Ye.N., red.; VOLOHOK, K.M., tekhn.red.
Genomic aspects and the organization of transportation by the self-propelled freighter fleet] Ekonomika i organizatial perovock samekhodnym gruzovym flotom. Leningrad, Izd-vo "Rachnoi transport," Leningr.otd-nie, 1960. 94 p. (MIRA 13:9) (Inlend water transportation)

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TSYPIN, YA. E.

Organizatsila raboty rechnogo flota po grafiku (Organization of river fleet operation according to schedule) Moskva, Vodtransizdat, 1954. 96 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 6, Sep. 1954

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TSYPIN, Ya. Ye., LOZINSKIY, V.N., retsenzent; ARSEN'YEV, S.P., redaktor; MAKRUSHINA, A.N., redaktor; BEGICHEVA, M.N., tekhnicheskiy redaktor [Organization of river fleet operation according to schedule] Organizatsila raboty rechnogo flota po grafiku. Moskva, Gos. izd-(MLRA 7:10) vo vodnogo transporta, 1954. 94 p. (Inland water transportation)

TETERYATNIKOV, Mikhail Stepanovich; TSYPIN, Ya.Ye., red.; VLADIMIROV, A.I., retsenzent; LOBANOV, Ye.M., red.izd-va; YERMAKOVA, T.T., tekhn.red.

[Work organization of the river fleet and ship accounting] Organizatelia raboty flota i sudovala otchetnost'. Izd.2. Moskva, Izd-vo "Rechnoi transport," 1958. 250 p. (MIRA 12:3) (Inland water transportation)

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TSYPIN, IA YE.

Organizatsiia dvizheniia flota po grafiku na Moskvoretskoi sisteme. / To put the fleet movement on the Moskve river system on time schedule 7. (Rechnoi transport, 1949, no. 2, p. 7-9). DLC: TCoCl.R4

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassifed.

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Prakticheskoye posobiye dispetcheru dvizheniya rechnogo flota (Handbook for the dispatcher of a river fleet) Moskva, lzd-vo Ministerstva Rechnogo Flota SSSR, 1951. 156 p. tables. Contains bibliography. Cataloged from abstract. Information on planning of transportation, compilation of traffic charts, rights and responsibilities of a dispatcher and various operations.

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IRKHIN, Aleksandr Petrovich, kand. tekhn.nauk; YERPICHEV, Mikhail Ivenovich, inzh.; TSYPIN, Yakov Yevgen'yevich, inzh.; CHERNYY, N.Ye., red.; VCICHOK, K.M., tekhn. red.
The economics and organization of transportation via a self-propelled merchant marine fleet] Ekonomika i organizatsiia perevozok samokhodnym gruzovym flotom. Izd.2., ispr. i dop. Moskva, Izd-vo "Rechnoi transport" 1963. 114 p. (MIRA 16:10)
Inland water transportation)

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APPROVED FOR RELEASE: 08/31/2001

TSYPIN, Yu.Ya., otv.red.

The Local States

[Mathematics; program, method instructions, and quizzes for correspondence students in the first course of agricultural schools] Matematike; programma, metodicheskie ukazaniia i kontrol'nye zadaniia dlia uchashchikhsia-zaochnikov I kursa sel'skokhoziaistvennykh tekhnikumov. Zagorsk, M-vo sel'khoz. SSSR. Part 1. [Lessons 1,2,3] Zadaniia 1,2,3. 1958. 75 p. (MIRA 13:2)

1. Vsesoyuznyy zaochnyy sel'skokhozyaystvennyy tekhnikum. (Mathematics--Study and teaching)

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PETROV, K. A.; PARSHINA, V. A.; ORLOV, B. A.; <u>TSYPINA, G. M.</u>
Troperties of phosphines. Part 5: Reactions of phosphines
with chloroamines, sulferyl chlorides, and amines. Zhur. ob.
with chloroamines, sulferyl chlorides, and amines. Zhur. ob.
with chloroamines, sulferyl chlorides, (MIRA 16:1)
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CHURINOV, M.V.; <u>TSYFINA, I.M.;</u> LAZAREVA, V.F. Principles and methods for compiling general areal maps of the U.S.S.R. on a 1:1,500,000,1:2,500,000 scale. Sov.geol. 5 no.11:112-124 N '62. (MTRA 15:12) . Vsesoyuznyy nauchno-iseledovatel'skiy institut giarogeologii i inzhenernoy geologii. (Brgineering geology-Maps)

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RENNE, I.P.; TSYPINA, M.N.; YUDIN, L.G.

Experimental investigation of the accuracy and reliability of dividing grids with thin graduation lines. Zav. lab. 30 no.113 1387-1390 164

1. Tul'skiy politekhnicheskiy institut.

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AUTHOR: Renne, I. P.; Taypina, H. N. ORG: none TITLE: Investigation of direct steady-state plane <u>extrusion</u> SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 5, 1966, 12-15 SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 5, 1966, 12-15 TOPIC TAGS: metal extrusion, flow field, friction, metal deformation ABSTRACT: The authors describe a method of the theoretical calculation of the de- formations of forgings produced by direct extrusion, which makes it possible to de- formations of forgings produced by direct extrusion, which makes of the slip-line is shown that the labor-consuming exact solution based on the use of the slip-line field and the corresponding hodograph of flow velocities may be replaced with a suf- ficiently accurate approximate solution if the slip-line field is replaced with a suf- fisciontinuous velocity field. For comparison with experimental findings, the authors investigated the processes of direct extrusion with the ratio $H/h = 3.42$ in the pre- investigated the processes of direct extrusion with the ratio $H/h = 3.42$ in the pre- investigated the processes of direct extrusion with the ratio $H/h = 3.42$ in the pre- investigated the processes of direct extrusion with the ratio $H/h = 3.42$ in the pre- invisit steady-state flow was accomplished and the region originally present in the until steady-state flow was accomplished and the region originally present in the plastic zone was entirely displaced beyond the confines of that zone. Findings, Tha Desc: $621.777.22$	<u>L 36129-66</u> EWT(m)/EWP(W)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/HW/DJ ACC NR: AP6016577 (N) SOURCE CODE: UR/0182/66/000/005/0012/0015 55	
SOURCE: Kuznechno-shtampovochnöya profizioeent. TOPIC TAGS: metal extrusion, flow field, friction, metal deformation TOPIC TAGS: metal extrusion, flow field, friction, metal deformation ABSTRACT: The authors describe a method of the theoretical calculation of the de- formations of forgings produced by direct extrusion, which makes it possible to de- formations of forgings produced by direct extrusion, which makes it possible to de- formations of forgings produced by direct extrusion, which makes it possible to de- formations of the local deformations and the total values of deformation intensity. It termine both the local deformations and the total values of the slip-line is shown that the labor-consuming exact solution based on the use of the slip-line field and the corresponding hodograph of flow velocities may be replaced with a suf- ficiently accurate approximate solution if the slip-line field is replaced with a ficiently accurate approximate solution with experimental findings, the authors discontinuous velocity field. For comparison with the ratio H/h = 3,42 in the pre- investigated the processes of direct extrusion with the ratio H/h = 3,42 in the pre- investigated the processes of lines was plotted were subjected to direct extrusion on which a coordinate grid of lines was plotted were subjected to direct extrusion until steady-state flow was accomplished and the region originally present in the lastic zone was entirely displaced beyond the confines of that zone. Findings, Tha LDC: 621.777.22	AUTHOR: <u>Renne</u> , I. P.; Taypina, H. N.	
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L 05074-67 EWT(d) ACC NR: AP6013321 (N) SOURCE CODE: UR/0413/66/000/008/0137/0138 AUTHORS: Muratikov, L. N.; Otvagin, Ye. F.; Chentsov, B. V.; Tsypina, S. F.; Kuz'min, V. G. SOURCE SOURCE	1
ORG: none TITLE: An automatic <u>steering device for a ship</u> , Class 65, No. 180974 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 137-138 TOPIC TAGS: ship component, ship navigation, rudder, automatic central design ABSTRACT: This Author Certificate presents an automatic steering device for a ship. The device includes a gyro induction compass with a course angle signal controller The device includes a gyro induction compass with a course and fine readout scales, output signal amplifier. The device also contains coarse and fine readout scales, output signal amplifier. The device also contains coarse and fine readout scales, insures smooth turns of the ship with a given angular circulation rate. The course angle signal controller of the gyro induction compass and the receiver of the follow-up system are connected by electrical circuits. The motor of the follow-up system system are connected by electrical circuits. The motor of the follow-up system incourse angle controller and the tachometer-generator are kinematically connected with course angle controller and the follow-up system when the controller rotor is stationary. UDC: 629.12.014.6-523 <u>UDC: 629.12.014.6-523</u>	

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ACC NR: AP6013321 cross arm (see Fig. 1). The rotor of the controller is electrically connected with the negative feedback detector. This feedback detector is equipped with a negative feedback coefficient regulator. The rotor of the course controller is kinematically connected with the reducing gear train of the turn controller of the ship for a relative given course. This turn controller reducing gear is equipped with a course change scale, a friction clutch, and with a crank which is used for establishing the new course readout on the scale. To match the position of the course controller rotor with the stator, the rotor winding may be connected to the input of the amplifier, and the negative feedback detector winding may be disconnected. To make the selection of the integration coefficient more precise, the output axis of the motor-integrator is connected to the mechanical differential by a reducing gear train. Orig. art. has: 1 figure. SUB CODE: 13/ SUEM DATE: O2Apr64	
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2. Moskovskiy zhelatinovyy zavod (for Vlasov, Rostovtseva, Chekanova, TSypina, Kust.).

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"Rolling contact bearings." Reviewed by L. D. Chasovnikov, I. Ya. Al'shits, A. a. Korolev. Vest. Mash. 32, no. 3, 1952.

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"Investigation of the Effect of a Radial Clearance on the Load-Lifting Capacity and Life of Rocker Bearings." Gand Tech Sci, Central Sci-Res Inst of Technology and Machine Building, Min Heavy Machine Building USSR, Moscow, 1955. (KL, NO 17, Apr 55)

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TSYPKIN, B.V. sov/2483 PHASE I BOOK EXPLOITATION 25(2) Beyzel'man, Rafail Davidovich, and Boris Vladimirovich Tsypkin Podshipniki kacheniya; spravochnik (Antifriction Bearings; Handbook) 4th ed., rev. and enl. Moscow, Mashgiz, 1959. 608 p. 30,000 copies printed. Ed.: N. F. Golovanov, Candidate of Technical Sciences; Eds. of Publishing House: A. I. Varkovetskaya and N. Z. Simonovskiy; Tech. Ed.: R. G. Pol'skaya; Managing Ed. for Literature on the Design and Operation of Machinery (Leningrad Division, Mashgiz): F. I. Fetisov, Engineer. PURPOSE: This handbook is intended for machine and parts designers and mechanics. It may also be useful to students of machinery construction vtuzes. COVERAGE: This handbook, a fourth edition, revised and enlarged, contains basic information on the design of antifriction bearings Card 1/11

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Antifriction Bearings (Cont.)	SOV/2483
and related parts. Maintenance and lubrication of bearing selection of the proper type of bearing for a given opera and the design of bearing units are discussed. Technical specifications for large-size four-row taper roller bearing according to two new standards are presented. No personal are mentioned. There are 33 references, 31 Soviet, 1 German, English.	ngs Lities
TABLE OF CONTENTS:	3
Foreword	•
Basic Symbols Used in the Handbook	5
The Design Information on Antifriction Bearings	7
Ch. I. Basic information of the of bearings Classification of basic types of antifriction bearings Characteristics of basic types of antifriction bearings	35
Card 2/11	

-1957) 125-25

 Antifriction Bearings (Cont.) System of conventional symbols Ch. II. Basic Geometry in Standard Antifriction Bearings Standard overall dimensions of bearings Angle of filling of radial ball bearings Needle roller bearings Protrusion of the retainer in tapered roller bearings Ch. III. Loads Acting on Supports in Power Transmissions Gear drives Belt drives Ch. IV. Basic Design of Antifriction Bearings Kinematics of antifriction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings Card 3/11 	2483
 Ch. II. Basic Geometry in Standard Antifriction Bearings Standard overall dimensions of bearings Angle of filling of radial ball bearings Needle roller bearings Protrusion of the retainer in tapered roller bearings Ch. III. Loads Acting on Supports in Power Transmissions Gear drives Belt drives Ch. IV. Basic Design of Antifriction Bearings Kinematics of antifriction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings 	57
 Ch. II. Basic Geometry in Standard Antifriction Bearings Standard overall dimensions of bearings Angle of filling of radial ball bearings Needle roller bearings Protrusion of the retainer in tapered roller bearings Ch. III. Loads Acting on Supports in Power Transmissions Gear drives Belt drives Ch. IV. Basic Design of Antifriction Bearings Kinematics of antifriction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings 	57
 Standard overall dimensions of bourange Angle of filling of radial ball bearings Needle roller bearings Protrusion of the retainer in tapered roller bearings Ch. III. Loads Acting on Supports in Power Transmissions Gear drives Belt drives Ch. IV. Basic Design of Antifriction Bearings Kinematics of antifriction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings 	62
 Standard overall dimensions of boundage Angle of filling of radial ball bearings Needle roller bearings Protrusion of the retainer in tapered roller bearings Ch. III. Loads Acting on Supports in Power Transmissions Gear drives Belt drives Ch. IV. Basic Design of Antifriction Bearings Kinematics of antifriction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings 	62
 Angle of filling of radial ball bearings Needle roller bearings Protrusion of the retainer in tapered roller bearings Ch. III. Loads Acting on Supports in Power Transmissions Gear drives Belt drives Ch. IV. Basic Design of Antifriction Bearings Kinematics of antifriction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings 	66
 Needle roller bearings Protrusion of the retainer in tapered roller bearings Ch. III. Loads Acting on Supports in Power Transmissions Gear drives Belt drives Ch. IV. Basic Design of Antifriction Bearings Kinematics of antifriction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings 	68
 Ch. III. Loads Acting on Supports in Power Transmissions Gear drives Belt drives Ch. IV. Basic Design of Antifriction Bearings Kinematics of antifriction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings 	82
Gear drives Belt drives Ch. IV. Basic Design of Antifriction Bearings Kinematics of antifriction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings	86
Gear drives Belt drives Ch. IV. Basic Design of Antifriction Bearings Kinematics of antifriction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings	87
Ch. IV. Basic Design of Antifriction Bearings Kinematics of antifriction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings	103
Kinematics of antiffiction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings	10
Kinematics of antiffiction bearings Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings	10
Distribution of load in a thrust bearing Differential mounting of thrust bearings Inertia forces in ball bearings	11
Differential mounting of thrust bearings Inertia forces in ball bearings	11
Inertia forces in ball bearings	11
Card 3/11	ΤT
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CIA-RDP86-00513R001757320006-0

Antifriction Bearings (Cont.)	SOV/2483
Additional load on self-aligning thrust bearings	115 116
Friction in antifriction bearings Contact stresses and deformations in two compressed	125
elastic bodies Basic formulas for calculating elastic deformations and stresses in antifriction bearings	131
Load capacity and life of thrust ball bearing	142
plane race Formulas for calculating load capacity and life of	143
antifriction bearings Design of bearings taking the effect of radial clearance on load capacity and life into account	152
Axial load capacity and the of single row	171
antifriction bearings Life of bearings working under rocking motion	182
Card 4/11	

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SOV/2483 Antifriction Bearings (Cont.) Ch. V. Basic Rules for Selecting Ball and Roller Bearings 191 191 General suggestions 192 Selecting radial ball and roller bearings 196 Selecting angular contact ball and roller bearings 200 Selecting thrust bearings Selecting bearings working under variable loads and speeds 200 204 Selecting bearings at n = 0 r.p.m. 205 Nomogram for selection of bearings Effect of hardness of the rolling surfaces on the 207 load capacity of bearings 211 Ch. VI. Clearances in Antifriction Bearings 211 General premises 212 fit class Change of initial clearance dependent on 213 Change in fit clearance during bearing work Relationship between radial clearance and axial play 213 in bearings Card 5/11

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SOV/2483 Antifriction Bearings (Cont.) Methods of measuring radial clearance and axial 215 play in bearings 216 Initial clearances 221 Clearances in adjustable-type bearings Change in the initial clearance of a bearing with tapered bore mounted on a taper clamping sleeve or 225 taper journal Relationship between the permissible angle of misalignment 227 and the clearance in single-row ball bearings 228 Deformation in preloaded bearings 230 Determining preloading 231 Methods of securing preloading Determining nominal radial load in the design of 236 bearings with preloading 238 Determining length differences of bracing sleeves Assembling two or three angular contact bearings 238 consecutively Card 6/11

APPROVED FOR RELEASE: 08/31/2001

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RENTERA BATTAKAMAN INI MANANA MAN Manana en ranne

ntifriction Bearings (Cont.)	249
h. VII. Antifriction-bearing Fits	249
General premises Conditions determining housing and shaft and housing fits of radial bearings Selecting fits Fits for radial and angular contact bearings Thrust-bearing fits Needle roller-bearing fits Limitation of preloading by conditions of ring strength Quality and accuracy of fit surfaces	250 256 256 262 262 265 265
Quality and accuracy of the charance of bearings Effect of fit on the radial clearance of bearings Determining forces for pressing on ring at interference fit and for dismounting Special fits for some types of bearings Order of selecting fits for antifriction bearings Table of fits for antifriction bearings	267 268 271 274 279

	SOV/2483
Antifriction Bearings (Cont.)	
	287
Ch. VIII. Accuracy of Antifriction Bearings	
Toobpical SDECILICACIOND	287
is a set and of hearings	296
Accuracy of rolling elements	301
Accuracy of folling elements Forms and dimensions of bearing chamfers Technical specifications for adapter sleeves, Technical specifications for adapter sleeves,	nuts, 302
Technical specifications for tary and washers of ball and roller bearings	302
and washers of ball and relation Steel used in bearing manufacture	50-
Steel used in Dearing meneers	30
Ch. IX. Design of Bearing Assemblies	30
Ch. IX. Design of Bearing assemblies Layout of bearing assemblies	30
- t stag types of Deal Lupp	30
Selecting types of accuracy Selecting degree of accuracy	
Selecting degree of accuracy Securing coaxiality of fitted parts [bore and Securing coaxiality and strength of assembly par	shaler 31
Securing coaxiality of fitted parts (could be assembly parts) Securing rigidity and strength of assembly parts and parts of mated parts and strength of mated parts and parts an	31
Securing rigidity and strength of assembly Compensation for thermal expansion of mated particular compensation for thermal expansion assemblies	31
Compensation for thermal expansion assemblies Mounting requirements for bearing assemblies	
floancene	
Card 8/11	

59 F.S

(Cont.)	SOV/2483
Antifriction Bearings (Cont.)	
in mechanisms	316
Example diagrams for installing bearings in mechanisms Constructional elements of parts of bearing assemblies	318
Constructional elements of parts of bearings	327
Final and intermediate fixing of bearings Sealing bearing assemblies	348
Ch. X. Lubricating Antifriction Bearings. Selecting	•
Lubrication and Cooling Systems	372
Lubrication and cooling of com	372
Purpose of lubrication	372
Requirements for bearing lubrication	374
Selecting lubricants	378
Lubricant-feeding systems Cooling systems for bearing assemblies	390
Ch. XI. Mounting, Dismounting, and Operation of Antifricti	lon
Ch. XI. Mounting, Dismounting, and the	397
Bearings Devices for mounting bearings	397
Devices for dismounting bearings	407
Brief list of rules for storing bearings	416
Card 9/11	
	۱ <u>ــــــــــــــــــــــــــــــــــــ</u>

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SOV/2483 Antifriction Bearings (Cont.) Determining causes of bearing failure by external signs 418 Technical Specifications for Ball and Roller Ch. XII. 425 Bearings 426 Tables of specifications for antifriction bearings 546 Allowable radial loads on bearings 555 Appendixes 555 1. Example of design schemes for bearing units 568 Terminology used for antifriction bearings 581 2. 3. Commercial sizes of balls 582 4. Commercial sizes of cylindrical rollers 5. List of All-Union Standards for antifriction bearings 583 6. Related designations of conventional bearing types and series in the USSR, Sweden, Germany, Hungary, and 585 Czechoslovakia 596 Comparative table of hardness 597 7. Table of trigonometrical values 8. Card 10/11

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AUTHOR:	D. W. (Condidate of Technical Sciences)
	kacheniya, rabotayushenixi pir imenya dvizhenii) 2: Vestnik Mashinostroyeniya, 1959^Nr 4, pp 25-29 (USSR)
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ABSTRACT:	The part played by the lubricant in "False Brinelling" is attributed to the repetition of pressure on a surface
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	conditions prevailing in continuous rotation and radjacent in oscillating bearings only when the paths of adjacent
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	(Eq 2) to compute the service life of obscillating bearings from the service life formulae of rotating
	bearings. This expression is based on the for fatigue
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SOV/122-59-4-4/28 On the Service Life of Rolling Bearings Operating under

Oscillating Conditions m-th power of the contact stress. The service life of the rotating bearing is transformed by using the ratio of load cycles and the m-th power of the inverse ratio of the contact stresses. The effective contact stress in an oscillating bearing can be computed as a mean value of the contact stresses experienced by the most highly loaded point of the race when traversed by the rolling bodies during the displacement of the bearing between one extreme position and the other. The formulation of the extreme position and the other. The formulation of mean value is given (Eq. 4). A quantity repeatedly occurring in this formulation is tabulated for various values of the amplitude in terms of the minimum angle for the overlapping of two rolling bodies. In spherical ball and roller bearings the greatest contact stresses occur on the outer race. It is shown that, in this case, when the inner race oscillates, the service life, compared with that of a rotating bearing, takes into account solely the ratio of the number of cycles. When the paths of the rolling bodies do not overlap, the service life computations are not applicable. Under

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	SOV/122-59-4-4/28 On the Service Life of Rolling Bearings Operating under Oscillating Conditions these conditions, greases with zinc oxide additives or lithium greases are recommended. The grease should fill the empty bearing space. Baffles should be installed between two bearings. Feeding of lubricant under pressure is desirable. A maximum grease volume and a minimum oxygen volume are advisable. Frequent changes of lubricant are beneficial. Bearings with an oscillating outer race are preferable. The rolling bodies should rotate about their own axes by at least 180°. There are 1 table and 6 references, of which 4 are Soviet and 2 English.
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