NOVIKOV, Ya.A., kandidat tekhnicheskikh nauk; SHATSKIY, Ye.Z., kandidat tekhnicheskikh nauk, redaktor; ROSTOVTSEVA, M.P., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[From the work practice in using prefabricated reinforced concrete in industrial and housing construction] Iz opyta primeneniia sbornogo zhelezobetona v promyshlenom i grazhdanskom stroitel'stve. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 58 p. (MLRA 9:6)

l.Moscow. TSentral'nyy institut informatsii po stroitel'stvu. (Precast concrete)

APPROVED FOR RELEASE: 08/09/2001





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SHATSKIY, Ye.Z., kandidat tekhnicheskikh nauk. Combined reinforced concrete construction elements. Biul. (MLRA 9:9) stroi. tekh. 13 no.6: 31-35 Je '56. 1. TSentral'nyy institut informatsii po stroitel'stvu. (United States -- Reinforced concrete construction)

海洋投资

NOVIKOV, I.I., kand.iskusstvovedeniya arkh.; MANDRIKOV, A.P., kand.tekhn. nauk; SEDOV, A.P., kand.arkhitektury; KCRYUSEKOV, & H., kand.tekhn. nauk; SOKOLOV, Ye.B., kand.arkhitektury; SHATSKIY, Ye.Z., kand. tekhn.nauk; KRICHEVSKAYA, Ye.I., kand.tekhn.nauk; SHLBINA, L.A., kand.tekhn.nauk; KOVEL'MAN, I.A., kand.tekhn.nauk; AFASYAN, A.A., kand.tekhn.nauk; USENKO, V.M., kand.tekhn.nauk, nauchnyy red.; BARSKOV, I.M., iznh., nauchnyy red.; YUDINA, L.A., red.izd-va; PECHKOVSKAYA, T.V., tekhn.red.

> [Building practices in the peoples' democracies. Based on reports by delegations of Soviet biulders] Opyt stroitel'stva za rubezhom; v stranakh narodnoi demokratii. Po materialam ochetov ielegatsii sovetşkikh spetsialistov-stroitelei. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit., 1957. 253 p. (MIRA 11:4)

1. Sotrudniki TSentral'nogo instituta nauchnov informatsii po stroitel'stvu i arkhitekture Akademii stroitel'stva i arkhitektury SSSR (for Novikov, Mandrikov, Sedov, Konyushkov, Sokolov, Shatskiy, Krichevskaya, Shleina, Kovel'man, Agasyan) (Building)

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APPROVED FOR RELEASE: 08/09/2001

SHATSKIY, Ye.Z., kand.tekhn.nauk

Precast reinforced concrete components and prestressed structural elements used in industrial construction. Opyt (MIRA 11:1) stroi. no.10:3-36 '57. (Industrial buildings) (Precast concrete)

SHATSKIY, Ye.Z., kand.tekhn.nauk

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SHATSKIY, Ye. Z., kand. tekhn. nauk.

Using monolithic and precast prestressed reinforced concrete in constructing highway bridges. Opyt stroi. no.13:3-20 '58. (MIRA 11:12)

(Bridges, Concrete)

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2.

SHATSKIY, Ye.Z., kand. tekhn. nauk Reinforced concrete television antennas. Opyt stroi. no.13:33-35 (MIRA 11:12) 158. (Precast concrete construction) (Television-Antennas) 1.0

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SHATSKIY, Ye.Z., kand.tekhn.nauk

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TSVETKOV, P.M., inzh.; SHATSKOV, G.F., inzh.

Steel production in tilting open-hearth furnaces at the "Azovstal'" plant. Stal' 23 no.8:713-714 Ag '63. (Zhdanov--Steel--Metallurgy) (Open-hearth furnaces) (MIRA 16:9)

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KHOZAK, S.I.; SHATSKOVA, P.V.

Conference of readers of "Meditsinskaia promyshlennost' SSSR" at the Karpov Plant. Med.prom. no.3:47-48 J1-S \$55. (MIRA 9:12) (MEDICAL INSTRUMENTS AND APPARATUS -- PERIODICALS)

KHOZAK, S.I.; SHATSKOVA, P.V.

Inventors and rationalizers at the Karpov Plant in their struggla for technical progress. Med.prom. no.4:10-12 O-D '55. (MLBA 9:12) (DRUG INDUSTRY in Russia, contributions to progr.)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548720006-8

S/867/62/000/012/001/001 A006/A101

AUTHORS: Danilenko, L. F., Shatskova, V. A., Shapiro, G. I.

TITLE:

On the problem of residual stress relieving in thermoplastic sheets

SOURCE:

E: Akademiya stroitel'stva i arkhitektury SSSR. Institut sanitarnoy tekhniki. Sbornik trudov, no. 12, 1962. Polimernyye materialy v sanitarnoy tekhnike 122 - 127)

TEXT: Heating of thermoplastic sheets produces conditions which promote the formation of internal stresses and entail corresponding changes in the geometrical dimensions. Tests determining such changes by heating are not included in Soviet standard specifications although they are provided for in the USA (ASTM 702-56) and Japan (II S 6745-1956). The authors studied changes in 3-5mm thick vinyl plastic and organic glass sheets caused by heating at $70 - 140^{\circ}$ C of the former and at $80 - 150^{\circ}$ C of the latter material. The deformation was measured on graduated specimens with a microscope of 0.005 mm accuracy. The results are represented in relationship curves of the sheet dimensions versus the

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CIA-RDP86-00513R001548720006-8

On the problem of residual stress relieving in ...

S/867/62/000/012/001/001 A006/A101

heating time at given temperatures, using mean values of longitudinal and transverse measurements. In heating organic glass sheets stresses arise during heating, independent of the sheet orientation. The same phenomenon is observed in vinyl plastic sheets heated to 140° C; the stresses arise during pressing but not during calendering. The optimum annealing time above which changes in the geometrical dimensions do not take place, is 40 min for 5-mm thick vinyl plastic sheets, heated to $80 - 140^{\circ}$ C. At higher temperatures (130 - 140 C) and long lasting annealing it was found that stress relieving was not possible without lamination of the material. The method is proposed for evaluating changes in the geometrical dimensions of annealed thermoplastic sheets. There are 3 figures.

Card 2/2

APPROVED FOR RELEASE: 08/09/2001

5/035/59/000/003/027/039 A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Mo. 3, pp. 65-66, # 2087

AUTHOR <u>Shatsman, E.</u>

TITLE: Cosmogonic Significance of F Fauri Stars

PERIODICAL V sb. Nestatsionarnyye zvezdy, Yerevan, AN ArmSSR, 1957, pp.155-16, Discuss, pp. 162-168

TEXT: Estimates of the age of T Tauri stars, considered as contracting stars which did not yet reach the main sequence, lead to the value of $\sim 10^{10}$ years, which is greater by an order of magnitude than the age of the T-association itself. This discrepancy could be eliminated, i. e., contraction time would be less, if stars during contraction have luminosities too large for their masses, or if contraction is accompanied by mass losses. It is pointed out that masses of these stars should be determined and spectra showing displacements of emission lines should be studied. There is a ground to assume that rotational speeds of T Tauri stars are high. The corresponding main sequence stars have low rotational

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s/035/59/000/003/027/039 A001/A001

Cosmogonic Significance of T Tauri Stars

speeds. Consequently, a mechanism should exist whose action results in the loss of the star angular momentum during contraction. The author explains this by the presence of a variable magnetic field at the surface of I lauri stars. An important problem is studying dynamic features of F-associations in order to explain (assuming the gravitational contraction hypothesis; the existence of associations with positive energy whereas their constituent stars have negative energies In a discussion A. G. Masevich noted that difficulties with age scale for F Tauri stars are even aggravated, when assuming contraction accompanied by the loss of mass. O. A. Mel'nikov holds that large line widths in spectra of T Tauri stars are mainly caused by large-scale turbulence and, possibly, by radial convection. The true rotational speed of these stars is probably not high, like the ordinary stars of low luminosities. Grinsteyn noted that difficulties connected with the T Tauri star age are exaggerated. Such formations as NGC 2264 are stable and have an age (determined from AO stars) \sim 5×10 6 years. The formation of stable associations seems to be possible, exact data on star proper motions are recessary for studying this problem. A. G. Masevich pointed out that "time" discrepancy between stars of earlier and later classes take place also in NGC 2264. V. A. Ambartsumyan noted that, when solving the problem of the energy sign of stellar association, it is necessary to settle the question,

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Cosmogonic Significance of T Tauri Stars

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whether only energy of translational motion of the stars and the energy of their gravitational interaction are taken into account, or the inner energy of binary stars as well. The problem of a possible exchange between the ortital energy of close binaries and translation motion energy of association members is most essential. Such an exchange is unthinkable in an expanding association, rut it was possible in the past if, at that time, the association space was sufficiently small. Shatsman holds that, when considering a cloud of condensing gas, it is necessary to take into account the expansion energy and the energy of star interaction including multiple stars, in addition to the energy of the system being in the process of formation. V. S. Safronov notes that for the formation of visual binaries in associations at the initial stage of their development, a sufficiently high stellar density is necessary, which corresponds to association – dimensions of the order of thousand astronomical units

A, G. Masevich

Pranslator's note: This is the full translation of the original Bussian abstract

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GAPONENKOV, T.K.; SHATSMAN, L.I.

Chemical composition and aggregating capacity of a microbe mass. Mikrobiologiia 30 no.2:271-274 Mr-Ap '61. (MIRA 14:6)

1. Voronezhskiy sel'skokhozyaystvennyy institut. (BACTERIA)

APPROVED FOR RELEASE: 08/09/2001

STREET, ST



AGTE, B.S.; SHATSMAN, L.Te. Indications for surgical intervention in closed fractures of the spine. 'op.metrokhir. 20 no.4:38-43 Jl-Ag '56. (MLRA 9:11) 1. Iz kliniki nervnykh bolezney i gospital'noy khirurgicheskoy kliniki Stalinekogo meditsinskogo instituta. (SPINB, fract. surg., indic. in closed fract.)

APPROVED FOR RELEASE: 08/09/2001

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548/2	.0006-8
ACC_NR: AR6034805 (**) SOURCE CODE: UR/0398/66/000/008/A020/A020	
AUTHOR: Stepanyuk, Ye. I.; Shatsman, Yu, L.	
TITLE: Experimental investigation of the work of partially submerged propellers	6
SOURCE: Ref. zh. Vodnyy transport, Abs. 8A115	-
REF SOURCE: Tr. Leningr. in-ta vodn. transp. vyp. 81, 1965, 71-75	
TOPIC TAGS: gust load, ship component, load factor, propeller	
ABSTRACT: The paper presents the results of a test to show the comparative effectiveness of an exposed propeller and a packed propeller under conditions of partial submersion and at comparatively high load factors. The tests were carried out with a single four-blade propeller (Kaplan type) of $D = 0.098$ m in a circulating flume, the speed of which was controlled within the limits of $0.2-1.3$ m/sec. The results of the tests are presented in the form of diagrams. Orig. art. has: 5 figures. Bibliography of 1 title. [Translation of abstract]	
SUB CODE: 13/	
Card 1/1 UDC: 629.12:532.5.582.5	

YERMAKOV, V.I.; SHATSOV, A.N. Radiometric surveying in oil-bearing regions of western Turkmenia. Geol.nefti 1 no.8:34-39 Ag '57. (MIRA 10:12) l.Institut nefti AN SSSR. (Turkmenistan--Petroleum geology) (Radioactivity--Measurements)



S/169/62/000/009/062/120 D228/D307

AUTHORS: Peysikov, Yu. V. and Shatsov, A. N.

TITLE: Application of underwater sea bottom radiometric surveying

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 9, 1962, 43, abstract 9A285 (Geol. nefti i gaza, no. 3, 1962, 50-53)

TEXT: The results of investigating the natural *f*-activity of bottom sediment samples in separate parts of the Caspian Sea are stated. By means of a device, which is described, the sea bottom's *f*activity was measured in order to ascertain whether underwater radiometric surveying can be conducted for the purpose of seeking oil and gas deposits and mapping the sea floor geologically. A method is suggested for the execution of underwater radiometric surveying. The results of experimental work in a number of oil-bearing areas are described. / Abstracter's note: Complete translation. /

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APPROVED FOR RELEASE: 08/09/2001



APPROVED FOR RELEASE: 08/09/2001



APPROVED FOR RELEASE: 08/09/2001
SHATSOV, Naum Isaakovich.

Kuliev, 3. M. Lonebalk ili. ne tilnykh tomnikutov i istitutov The drilling of oil Walus; textbook Mosky, Glas. - m.-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1947. 2 v. (47-8171)

TN870.55

EK7348

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720006-8"

SHAPSOV, N.I., prof.

Analyzing initial data on intiling wells in eastern fields and designing drilling rigs of lifting capacity adequate to the depth of these walls. Truty ISN to.7:139-143 447. (MIRA 12:1) (fil well drilling)

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Shalovy, a. I.			řá 30172	
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	USSR/Petroleum - Well Drilling Drilling	Oct 1947		
	"The Scientific Basis for Generalizing Stak Practice," N. I. Shatsov, 8 pp	hanovite		
	"Neftyancye Khozyaystvo" No 10			
	Discussion and charts illustrating the effe of using the Stakhanov system in drilling w crease production and cut drilling time.			
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	IC	30172		

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PA 479 Feb 1947 USSR/Petroleum - Well drilling Power "Determination of Power for the Drilling Process," N. I. Shelsey, 10 pp "Neftyanoye Khorpaystvo" Vol XXV, No 2 Mathematical discussion with graphs, then and formulae 4**T**9



SHATSOV, N. J.





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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720006-8 ļ SHATSOV, N.I., prof. What we can learn from Mugalim Gimazov's crew on progressive oil well drilling. Trudy Akad. neft. prom. no.3:114-147 '56.(MIRA 10:11) (Oil well drilling)

1







PHASE I BOOK EXPLOITATION 696 Shatsov, Nakhman Isaakovich and Khromov, Viktor Timofeyevich Metodika obobshcheniya peredovogo opyta burovykh brigad; na primere kontory bureniya No. 4 tresta Tatburneft' (Method for a General Application of Advanced Practices of No. 4 Drilling Crew of the Tatburneft' Trust) Moscow, Gostoptekhizdat, 1958, 129 p. (Series: Opyt novatorov neftyanikov) 1,650 copies printed. Ed.: Nurshanov, V.A.; Executive Ed.: Dubrovina, N.D.; Tech. Ed.: Polosina, A.S. PURPOSE: This book is intended for driller foremen and engineers and technicians concerned with oil-well drilling. COVERAGE: The book describes the work of advanced drilling crews in Tatariya and Bashkiriya. Methods for the general application of advanced drilling and the drawing of flow sheets are presented, and possibilities for increasing perbit footages and commercial drilling speeds Card 1/4

APPROVED FOR RELEASE: 08/09/2001

Method for a General Application (Cont.) 696

are disclosed on the basis of an analysis of the principal production processes. A description is given of the progress achieved at the Tatneft' trust since 1950, and 1955 is singled out as the year the complex mechanization and automation of drilling began. Commercial drilling speed increased from 285 meters per rig per month in 1950 to 830 meters per rig per month in 1956, while per bit footage rose for the same period from 1.85 to 14.22 meters per hour. V.T. Khromov and V.Ya. Semashko, graduate students of the Moskovskiy neftyanoy institut im. akad. I.M. Gubkina (Moscow Petroleum Institute im. acad. I.M. Gubkin) contributed to the book their data for 1951 - 1955 and 1956 respectively. There are 7 Soviet references.

TABLES OF CONTENTS:

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Orography and General Information on the Sector of Tatburneft'

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or Smaller	Diameter		127
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MALTROV, ivon Aleksandrovich; SHATSOY, H.1., red.; GURENICH, YA.D., vadualchiy red.; 'MENTHA, E.A., takhn.red. Theory and practice of the use of bits for hydraulic mining in the U.S.A.; based on meterials published abroad] Tooriia i praktika primenenia gidrononitornykh dolot v SSM: po materialam zarubezhnoi pachati. Moskva, Gos. nauchno-tekhnizi4vo neft. i gorno-toplivnei lit-ry, 1958. 135 p. (MIRA 12:1) (Hydraulic mining--Equipment and supplies)

APPROVED FOR RELEASE: 08/09/2001



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CIA-RDP86-00513R001548720006-8



APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548720006-8

SOV/2124 Prospecting and Development (Cont.) Methods of Vykhodtsev, S. V. [Moscow Petroleum Institute]. 37 Appraising Labor Productivity in Oil Well Drilling The author discusses the two basic methods for estimating labor productivity: 1) according to natural output, and 2) according to production costs. He rejects the latter method as unsuited for drilling, since drilling involves indefinite periods of time. He reviews other methods for estimating labor productivity, for which he considers two conditions essential: 1) proper understanding of the produced item, and 2) understanding of labor expenditure in standard units of time. The basic elements in well drilling are production casing, erection of derricks, and installation of drilling equipment. These operations can, in his opinion, be easily estimated according to a) footage drilled, b) the erection and hauling of derricks, c) the erection and dismantling of rigs. He produces a table listing the output of a derrick-erecting crew at the Tuymazyburneft' (Tuymazy Oil Drilling) Trust, and states that the assembling of drilling equipment can be estimated in a similar manner. Finally he cites the records attained by drilling enterprises during the Fourth and Fifth Five-Year Plan periods and notes that labor productivity of drill-Card 4/16 ٦.

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CIA-RDP86-00513R001548720006-8

Prospecting and Development (Cont.) SOV/2124 ing crews rose 2.17% in 10 years. He further stated that labor output in turbine drilling had been higher than in rotary drilling. It had also been higher in production drilling than in exploration drilling. He notes that growth in labor output was much more rapid in new areas than in old regions. Output had increased 30% during the Fourth Five-Year Plan period and 48% during the Fifth Five-Year Plan. Shatsov, N. I. [Moscow Petroleum Institute]. Efficient Use of Bits The author asserts that a basic factor in drilling is the per-49 formance of the bit at the bottom-hole. The better its performance, the faster, easier and less costly is the drilling of a A table indicates the time spent in drilling for the USSR as a whole, and for the Bashkiriya and Tatariya Associations. It also gives 1954 data Kagarmanov, N. F. [Ufa Petroleum Scientific Research Institute]. Ways of Increasing the Performance of Standard Bits The author states that actual data on the performance of 81 Card 5/16

APPROVED FOR RELEASE: 08/09/2001

14(5) AUTHOR:	Shatsov, N. I.	SOV/152-59-3-7/25	
TITLE:	On the Problem of the Simplification and Facilitation of Borehole Constructions (K voprosu ob uproshchenii i oblegchenii konstruktsiy skvazhin)		
PERIODICAL:		onykh zavedeniy. Neft' i gaz, 1959,	
ABSTRACT:	used in the Soviet Union the diameters of the pip too wide. In 1956 29.4% in the USA 64% were alreat small depths much mon and a surplus amount of From January 1, 1958 a r into force. The pipes of	e diameters of the casing pipes generally and those used in the USA shows that bes applied in the Soviet Union are far of 5 $3/4$ " - pipes were used (whereas eady used in 1955). Consequently, even se iron is needed in the Soviet Union, rubble is being drilled per meter. new national standard (GOST) has come the new steel types L and M with flow	
Card 1/2	USA, The strongly oval s has been retained is cri consumption of iron. The	g/mm ² can compete with those of the shape (0.025-0.02) of the pipes that ticized as leading to an increased e drill bits ought now to be adjusted ls. A table recommends such new neasures	

"APPROVED FOR RELEASE: 08/09/2001 CLA-RDP86-00513R001548720006-8
Conclusion of the Simplification and Suprise Sector Destructions Suprise Sector Destructions Suprise Sector Destructions There are 4 tables and 5 references, 1 of which is Soviet.
ASSOCIATION: Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. I. M. Gubkina (Moscow Institute for the Petro-Chemical and Gas Industry imeni Academician I. M. Gubkin)
SUBMITTED: June 10, 1958
Card 2/2

APPROVED FOR RELEASE: 08/09/2001



APPROVED FOR RELEASE: 08/09/2001

SHATSOV, Wakhman Isaakovich; ISAYEVA, V.V., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Division of layers in oil and gas fields; constructing, bracing, and cementing wells] Razobahchenie plastov v neftianykh i gazovykh skvazhinakh; konstruktsii, kreplenie i tsementirovanie skvazhin. Moskva, Jos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 286 p. (MIRA 13:4) (Oil fields--Production methods)

APPROVED FOR RELEASE: 08/09/2001

THE EASY

SHATSOV, Nakhman Isaakovich, prof.; FEDOROV, Vasiliy Sergeyavich; KULIYEV, Saftar Mekhtiyevich; IOANNESYAN, Rolan Arsen'yevich; SHISHCHENKO, Roman Ivanovich; GLIKMAN, Leonid Solamonovich; BALETSKIY, Pavel Vladimirovich; TINOFEYEV, N.S., inzh., retsenzent; ISAYEVA, V.V., vedushchiy red.: MUKHINA, E.A., tekhn.red.

[Drilling oil and gas wells] Burenie neftianykn i gazovykh skvazhin. Pod obshchei red. N.J.Shatsova. Meskva, Gos.nauchnotekhn.izd-vo neft. i gorne-toplivnel litery, 1961. 666 p. (MIRA 14:4)

(Oil well drilling)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548720006-8"

CONTRACTOR OF THE

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SHAROY, H.1.; MATS, B.A.; OGMITAPIN, E.A. Using "Ufimets" rigs for drilling slim holes in fields of the Ortyatr'skly Geological Prospecting Bureau of the Wertern Bashkir Petroleum Prospecting Trust. Trudy MINAHIGP no.35:57-65 '61. (MIRA 14:11) (Ilishevo region--Boring)

APPROVED FOR RELEASE: 08/09/2001



SHATDOV, Nakhman Isaahovich

Bureniye noftyanykh i gazovykh skvachin (by) N. I. Shatsov (i dr.) Fod obshchey red. N. I. Shatsova. Moskva, Gostoptekhindat, 1961. 666 p. illus., diagrs., graphs, tables. Includes biblio, raphical references.

APPROVED FOR RELEASE: 08/09/2001

SHATSOV, N.I.; RAKOV, P.P., inzh.; AVETISOV, A.A., inzh.; DANIYELYAN, A.A.; BERLIN, S.G.; GLYADKOVA, V.I., starshiy tekhnik; KARASIK, G.Ye., inzh.

> Standardized oil well drilling terminology. Neft. khoz. 40 no.5:66-69 My '62. (MIRA 15:9)

 Gosudarstvennyy komitet Soveta Ministrov RSFSR po koordinatsii nauchno-issledovatel'skikh rabot (for Rakov).
 Vsesoyuznyy nauchno-issledovatel'skiy institut po tekhnike bezopasnosti v neftyanoy promyshlennosti (for Avetisov). 3. Azerbadydzhanskiy nauchno-issledovatel'skiy institut neftyanogo mashinostroyeniya (for Daniyelyan, Berlin). 4. Bashnefteproyekt (for Glyadkova). 5. Gosudarstvennoye ob"yedineniye Azerbaydzhanskoy neftyanoy promyshlennosti (for Karasik). (Oil well drilling--Terminology)

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BUYANOVSKIY, NULU, KAPAYEV, ALKU, KURIYEV, SUMU, HUCTAMBEKOV, T.F., STRIZHOV, NULU, TIMOFEYEV, NUSU, SHATSOV, NULU

Technical progress in the drilling of oil and gas wells over the last one hundred years. Noft, khoz. 42 no.9/10:99-106 S-0 164. (MIRA 17:10)

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USSR/Astronomy - Weak stars, Luminosity Sep/Oct 52 "Luminosity Function of Absolute Weak Stars," R. B. Shatsova, Tambov State Pedagogical Inst "Astron Zhur" Vol 29, No 5, pp 574-581 (M) is redetd to eliminate errors in parallaxes of abs week stars obtained by Luyten (see 234T61). The luminosity function obtained differs from Luyten's. According to the writer's (M), the density of stars near the sun exceeds 0.56 stars/ cu parsec. Indebted to Prof P. P. Parenago. Received 5 Apr 52. 234T62

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USSR/ Astronomy				•
Card 1/1		Pub. 8 - 8/13		
Authors	1	Shatsova, R. B.		
Title	ŧ	Movements of stars of the spiral branch of the galaxy		
Periodical	1	Astron. zhur. 32/1, 61-71, Jan-Feb 1955		
Abstract	8	The movements of the giant stars comprising a part of the spiral branch of our galaxy are studied. Only the B 0 - N5 stars (the Boss CS catalogue which are at distances not greater or less than 150-600 parsec are con- sidered; also, stars with (astronomical) altitudes greater than \pm 30° are not considered. The total number of stars studied is 494. Thirteen references: 11 USSR and 2 USA (1948-1953). Diegrams; tables.)	
Institution	:	The Tambovskiy State Pedagogical Institute, Tambov		
Submitted	:	February 25, 1954		

SHATSOVA R.B.

Two selections of observations of absolute faint stars. Astron.zhur. 33 no.6:866-879 N-D '56. (MLRA 10:1)

> 1. Tambovskiy gosudarstvennyy pedagogicheskiy institut. (Stars--Magnitudes)

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3/055/60/057/02/010/013 E032/E914

3.1430 Variance of the Logarithms of Tangential Velocities of AUTHOR: Shatsova, R. B. Stars in the Lower Part of the Spectrum-Luminosity Diagram TITLE: (Hertzsprung-Russell Diagram) PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol 37, Hr 2, pp 344-It is well-known that dwarf stars belonging to different 347 (USSR) sequences in the Hertzsprung-Russell diagram have both physical and kinematic differences. The mean velocities and ABSTRACT : velocity variance increase along the sequence: red dwaris with emission, ordinary rea dwarfs, white dwarfs, sub-awarfs In studying the distribution of the logarithms of the tangential velocities of these stars, the present author dis. covered that in the groups enumerated above the variance of the logarithms of the tangential velocites is almost the The following observational material was employed K same, Card1/3

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80831 3/055/60/037/02/010/013 E032/E914

Variance of the Logarithms of Tangential Velocities of Stars in the Lower Part of the Spectrum-Luminosity Diagram (Hertzsprung-Russell Diagram)

dwarfs and beyond white dwarfs and sub-dwarfs. The variance is $\sigma = \pm 0.32$. The mean tangential velocity. and the variance of tangential velocities is given in Table 2. It is concluded that the ratio of these two quantities is a constant. Two possible values are obtained for this constant, namely, 0.85 ± 0.1 and 0.67 \pm 0.17. There are 2 tables, 1 figure and 12 references, of which 5 are English, 2 German and 5 Soviet.

ASSOCIATION: Rostovskiy-na-Donu gos. pedagogicheskiy institut (Rostov-on-the-Don State Education Institute)

CUBMITTED: May 6, 1959.

Card 3/3

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> s/033/60/037/005/011/024 E032/E514

Shatsova, R. B. AUTHOR : Y The Luminosity Function for Red Dwarfs TITLE PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol.37, No.5, pp. 870-881 Red dwarfs in the neighbourhood of the Sun are consider-

The luminosity function is determined analytically from a TEXT : solution of the integral equation of stellar statistics, which contains the distribution of the logarithms of tangential velocities. The general form of the integral equation of stellar statistics (Parenago, Ref.1) is of the form

$$A(x_{1}, x_{2}) = \omega \int_{0}^{\pi} r^{2} D(r) F(X_{1}, X_{2}) \frac{\partial X_{1}}{\partial x_{1}} \frac{\partial X_{2}}{\partial x_{2}} dr, \qquad (1)$$

where X_1 and X_2 are two absolute characteristics of a star, which in this context are identified as the absolute magnitude and the logarithm of tangential velocity 1.e,

$$\mathbf{X}_1 = \mathbf{M}, \ \mathbf{X}_2 = \mathbf{ln} \ \mathbf{v}_t = \mathbf{T}$$

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The Luminosity Function for Red Dwarfs

In the case of stochastic independence between T and M the function F(T,M) can be written down as a product so that

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 $\mathbf{F}(\mathbf{M},\mathbf{T}) = \varphi(\mathbf{M}) \quad \forall (\mathbf{T})$ (6)

where $\varphi(M)$ is the luminosity function and $\gamma(T)$ is the distribution function for the logarithms of tangential velocities. It is then assumed that within a radius of a few tens of parsecs around the Sun, the spatial density of stars is constant so that

$$D(r) = D_{o}$$
.

Using Eqs.(6) and (7) and the relationships given by Eq.(4), one finds that the function $A(m,\tau)$ is given by $\vec{p}^{T}(m,\tau)$

$$A(m,\tau) = \alpha \omega \int_{-\infty}^{\infty} \left[D_{0} \varphi(m + 5 - 5\rho) \right] \Psi(\tau + \rho + k) e^{3\alpha \theta} d\rho \quad (9)$$

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The Luminosity Function for Red Dwarfs where $\alpha = 2.30$, $(\overset{*}{=} = \ln r^* \text{ and } [D_0 \varphi(M)]$ is the absolute luminosity function. It is shown that the following approximations can be employed $A(m,\tau) = e^{a+bm+c\tau} (T \cdot T_0)^2$ (10)

$$\sqrt{(T)} = \frac{1}{\sqrt{2^{47}\sigma}} e^{\frac{-3\sigma^2}{2\sigma^2}}$$
(11)

Under these assumptions the required luminosity function is then represented in the form

$$D_{O}\varphi(M) = Be^{\beta M}$$
(12)

Eqs. (10), (11) and (12) taken in conjunction with Eqs (9) and (4)yield

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The Luminosity Function for Red Dwarfs

$$\beta = b \quad \text{or} \quad \beta = \frac{c + 2\alpha}{5},$$

$$B = \frac{\exp\left[a - 5b + c(T_0 - k) - \frac{1}{2}c^2\sigma^2\right]}{\alpha\omega \Phi\left(\frac{T^* - T_0}{\sigma} + c\sigma\right)}$$
(14)

The quantity B is then shown to be independent of τ . Thus, in order to determine the absolute luminosity function, one must know the parameters of the distributions $A(m,\tau)$ and $\psi(T)$ as well as $T^{\mathbf{x}}$. where

 $\mathbf{T}^{\mathbf{X}} = \mathbf{P}^{\mathbf{X}} + \mathbf{\tau} + \mathbf{k}$

A reduction of catalogues of stars with large proper motions compiled by Luyten (Ref.2), Deich (Ref.3) and Buscombe and Morris (Ref.4) shows that A(m, :) can, in fact, be represented by the above Eq.(10). On the other hand, Vyssotsky's list of red Card 5/6

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S/033/60/037/005/011/024 E032/E514 The Luminosity Function for Red Dwarfs dwarfs (Ref.6) shows that the logarithms of tangential velocities have a normal distribution and hence Eq.(12) can be employed. By varying the parameters of $A(\mathfrak{m},\tau)$ and $\psi(T)$ within permissible limits, different luminosity functions are obtained. The mean is 0.18 e^{0.32 M} The maximal luminosity function is found to be 0.33 e^{0.28}M $M \lt 12-13$ these results differ little from the For Van Rhijn function The increase in $D_{\phi}(M)$ for large M is still open to discussion, since it is based on the assumption that the variance of the logarithms of velocities is independent of the absolute magnitude. There are 4 figures, 7 tables and 12 references: 4 Soviet, 8 Soviet. ASSOCIATION: Rostovskiy-na-Donu gosudarstvennyy pedagogicheskiy institut (Rostov-on-Don State Institute of Education) SUBMITTED : May 6, 1958 (initially) May 18,1960 (after revision) Card 6/6

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CIA-RDP86-00513R001548720006-8

ACCESSION NR: AP4032732

s/0033/64/041/002/0418/0419

AUTHOR: Shatsova, R. B.; Maly*sheva, T. G.

TITLE: The diameter distribution function of draterlets and domes in the vicinity of Copernicus

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 2, 1964, 418-419

TOPIC TAGS: moon, astronomy, Copernicus crater, lunar surface, lunar feature, lunar crater

ABSTRACT: The lunar chart at a scale of 1:1,000,000 compiled and published in 1961 by the United States Air Force and NASA has been used in a study of the linear diameters of 4,336 craterlets and domes in the vicinity of Copernicus. The information was taken from map No. 58, which extends 20° in longitude and 16° in latitude; at the scale of the map it is possible to measure diameters of details beginning from 0.5 mm, which corresponds to approximately 75 m on the lunar surface. The 4,336 features were divided into 10 intervals (1 mm intervals from 0.5 to 10.5 mm). The data, after tabulation and construction of corresponding histograms and a curve, indicate that the linear diameters have a logarithmic normal distribution; this can be considered as evidence of statistical confirmation of their simultaneous formation. Orig. art. has 2 formulas, Cord $\frac{1}{2}$

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5/081/62/000/006/058/117 B149/B108

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AUTHOR: . Shatsova, S. A.

TITLE: Intensification of electroplating processes by ultrasound

PERIODICAL: Referativnyy zhurnal. Knimiya, no. 6, 1962, 408, abstract 6K186 (Sb. "Primeneniye ul'trazvuka v tekhnol. mashinostr.". no. 2, M., 1960, 139 - 148)

TEXT: The influence of ultrasound on copper plating, brass plating, and silver plating in cyanide electrolytes, and on zinc and cadmium plating in acid, cyanide, and alkaline electrolytes was investigated. A study was also made of the effect of ultrasound on the BT and limiting D_k , on

the rate of metal deposition, anode passivation, the composition of brass, and the dispersibility of the electrolytes. When simply shaped articles are plated the D_k can be increased to $10 - 15 \text{ a/dm}^2$ in nickel plating, to $10 - 20 \text{ a/dm}^2$ in copper plating, to $10 - 15 \text{ a/dm}^2$ in silver and zinc plating, to 2 a/dm^2 in brass plating, and to $8 - 12 \text{ a/dm}^2$ in cadmium plating. The use of ultrasound is recommended for thick platings (up to 1.5 mm).

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S/194/62/000/005/085/157 Intensification of galvanic processes ... D222/D305 done at a current density of 2 a/dm², and for mat finish at 15 - 20 a/dm². The speed of precipitation increases with the use of ultrasound from 1.6 - 5.0 microns/nour to 0.5 - 2.5 microns/ninute. During silver plating the use of ultrasound enables the current density to be increased up to 10 - 15 a/dm² (at a silver concentration of 40 g/lit.), and the speed of precipitation is 6 - 9 microns/min. plating. It is noted that the utilization of ultrasound is always advantageous for the plating of pleces if their form is not complices. [Abstractor's note: Complete translation].

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FEL'DAN, Yuliy Azar'yevich, kand. tekhn. nauk; SHATSOVA, Sulamif' Abramovna, kand. khim. nauk; MIKHAYLOV, Viktor Alekseyevich; SHATSILLO, C.I., inzh., red.; SHILLING, V.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Accelerating processes of the electrodeposition of metals in acoustical baths] Intensifikatsiia protsessov elektroosazhdeniia metallov v akusticheskikh vannakh. Leningrad, 1961. 19 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Elektricheskie metody obrabotki metallov, no.8) (MIRA 14:12)

(Electroplating)

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 $(1,1)^{(n-1)}$ 5,020/-1,031/002/008/025 1/2010 231 1 2607) AC5º A:12 11800 NY (C. 12 13, 23 (3) 5 1310 dhateria, S.A., Falidaan, M.A., Bobodarko, J.S., AUTHORS : Regizzya, A.Ye. Effect of Litresphip waves on processes of electroplating of TITLE measure for a partie similarity tes PERIODICAL: - Zruncal Polalaimoy Mbinii, w 34, no 2, 1901, 331-339 Solitore i an invensification of copper, brass and ailver elestrophasions for wrees on symplife whestrolytes were experimentally inweepigatet. Relations enween protipal parameters of the electroplating propert is an acceptive forch were subled and the results obtained with and without choise choice wares were compared. Few of the papers recently and when a restriction of a subscript compared of the subscript restrict restricting deal publicated of the subscription and in several cases no quastitative comparisons with symplify the electric process of the state of the subscription the process are made. However, the state of the state of the state along the process Cari 1/3

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WAB classical act only work freques (trassingations) on this gleation were of interest, in constant suttare regults obtained with and without iltrasonio waves one prevers experision ware carried but in the game tanks and under the same which have . The oppes of tanks were reeds /32 (527), a welded metal using a structure provide system state walls outsining a magnet the tribulue starsfurger for works β ke/s and a paparity of $\beta_{1,4}$ kva (Ref 9) Ya.A. Kitagerressel, "Frizekenige il trazvika v takhnologii mashinos proyeniys" ("Applicable of there will waves in technology of mechanical en-Sincering", 21d. tize technici (Ethyed by the House of technology), M., 113 (1995) and AMAN of (AVDING) sype, a 10-/ plaatice pack with working frequencies of Vere and a paparaby of Out+Ou5 kva (Ref 10). YouAu Felidman av al "Parass of is introdykhn, i prilzg. opyte / Ad. andei scientifie beltatial and inflattial practice"), TeITEIN GNTK SSSR, M., (1960)). For the TZV tank an industrial generator of the YSP-10 (UZG-10) type was used, and fir the AVDI-1 tank a FOYK -2 (GZUK-2) experimental generator. The experiments were carried out at 16 and 20 bilchertz, and the outrent yield was leternines by a coulombemeter. The effect of ultra-

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25300 5/080/61/034/002/008/025 Effect of ultrasonic waves ... A057/A129 sonic waves on copper plating was investigated in 3 electrolytes (Tab. 1) and it was observed that maximum current densities can be increased 5-6 times by the effect of sound vibrations (Fig 1). The rate of copper deposition is much greater when ultrasonic waves are applied and current yield increases considerably. Thus in electrolyte no. 3 at a current density 20 amp/dm² and 40°C the rate of copper deposition is 7-8 μ /min (at 50°C it is $11 \mu/\text{min}$), i.e., 15-20 times greater than in the existing practice of copper-plating from cyanide electrolytes. Comparison of the investigated electrolytes indicates that the best ultrasonic effect is obtained in electrolytes containing 80 g copper cyanide per liter. No noticeable deterioration of dispersion capacity due to the effect of ultrasonic waves was observed. The sound vibration effect on brass electroplating was studied in two electrolytes (Tab. 2) and it was determined that current density can be increased from 0.1-0.5 amp/dm^2 to 2-3 amp/dm^2 to obtain glossy deposits, and to 3-20 amp/dm^2 for pasty deposits. With increasing current density the rate of deposition increases up to a certain limit which depends on the content of free NaCN. At optimum content of Card 3/8

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25388 S/080/61/034/002/008/025 A057/A129

Effect of ultrasonic waves

free NaCN (4-6 g/l) and 40° C the rate of deposition is at 2-3 amp/dm² $0.5\,\mu/\text{min}$ for shiny brass and at 15-20 amp/dm² 2-2.5 μ/min for dull brass. Processes occurring above 2 amp/dm² current density are of theoretical and practical interest and have to be studied in further experiments. Current yield decreases with increasing current density and NaCN content, but the rate of deposition can be increased up to 120-150 μ /hr, i.e., 25-30 times higher than in existing electroplating. The effect of sound vibrations on cathodic polarization is the same as in copper plating, i.e., polarization decreases and the potential shifts towards more positive values. Increasing temperature, higher current density, and ultrasonic waves effect a change in composition of the deposited brass. Apparently ultrasonic waves have a different effect on deposition of copper and of zinc. The composition of electrolytes used in silver-plating experiments is presented in Tab. 3. With electrolytes containing about 40 g silver per liter current density can be increased to $10-15 \text{ amp/dm}^2$ by means of ultrasonic waves and the rate of deposition is 6-7 μ /min. The latter depends linearly on current density. In distinction from copper- and brass-electroplating, no noticeable effect of temperature was observed in silver-plating.

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