CIA-RDP86-00513R001549920018-2

s/200/62/000/008/001/002 D234/D308

Notion of a gyroscopic pendulum ...

pendulum with respect to its axis is small. The equations of motion are linearized under these assumptions and integrated for the case when the pendulum is subject to the force of gravity only. It is found that the motion of the pendulum can be considered as a superposition of: 1) two free vibrations with the angular velocities

$$\omega_{1} = (\sqrt{\lambda^{2} + k^{2}} + \lambda) P_{o},$$

$$\omega_{2} = (\sqrt{\lambda^{2} + k^{2}} - \lambda) P_{o},$$
(19)

where

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 $\dot{\varphi} = \text{const} = P_0, \quad \varphi = P_0 t + \varphi_0,$

 $2\lambda = A/C$, $k^2 = Gl_c / Cp_o^2$, G is the value of the force of gravity, 1 is one of the components of the vector radius of the center of $c_{gravity}$ of the pendulum, A is the axial moment of inertia, C+ ε' (t) and $C+E^{*}(t)$ are the equatorial moments of inertia, 2) vibrations

Card 2/3

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°.	• · · · ·		
Motion of a gyr	oscopic pendulum	S/200/62/000/008/001/0 D234/D308	02
frequency p. dulum, for which asymmetry, one to 0. In this	Two special cases are con h the authors obtain $\alpha = \beta$ of the two parameters which	h characterize it being equ	n-
ASSOCIATION:	Novosibirskiy elektrotek sibirsk Institute of Ele	hnicheskiy institut (Novo- ctrical Engineering)	
SUBMITTED:	November 20, 1961	•	λ
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Card 3/3			

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STREET, 1314-1015-2

CIA-RDP86-00513R001549920018-2

The novement of a not entirely ... $\frac{3/145/52/000/006/002/005}{D262/D303}$ These equations are intograted for the case where only the moment of gravity acts on the perdulum, where 0ξ is the axis of the pendulum. The general integral $\Delta = 0_1 e^{i\omega_1 t} + 0_2 e^{-i\omega_2 t} + \frac{d_1 + id_2}{2\lambda + k^2 - 1} e^{i(p_0 t + \phi_0)}$ where $\omega_1 = (\sqrt{\lambda^2 + iz^2} + \lambda) p_0$ (16) is obtained assuming that the angular velocities $\dot{\alpha}$ and $\dot{\beta}$ are small compared with the angular velocity of the rotation $\dot{\psi}$, the contribution of inertia 1ξ , $I\eta_1$ and $I\eta_1\xi_1$ are small compared with the moments of inertia 1ξ , $I\eta_1$ and $I\xi_1$. The effect of small static and dynamic asymmetries of the pendulum is discussed ind it is shown that for the initial conditions $\alpha = \alpha_0$, $\beta = \beta_0$, Card 2/3

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nder in

and scales designed by the author, for determining the qua tity of liquids by weight within tanks or cisterns during the process of filling. The device has an electromagnetic inlet valve for liquids and an electric contact which auto matically stops the filling when the weight of the liquid in the vessel reaches the limit set by the scales. There is l diagram.	A UTHOR:	Shpigel'glyas, A.S.	SOV/115-58-1-19/50
ABSTRACT: The described device is a combination of a simple manometer and scales designed by the author, for determining the quar- tity of liquids by weight within tanks or cisterns during the process of filling. The device has an electromagnetic inlet valve for liquids and an electric contact which auto matically stops the filling when the weight of the liquid in the vessel reaches the limit set by the scales. There is 1 diagram. Manometors-Design 2. Manometers-Equipment 3. Manometer Performance 4. Liquid level control 	TITLE:		(Vesovoy dozator dlya zhid=
and scales designed by the author, for determining the quantity of liquids by weight within tanks or cisterns during the process of filling. The device has an electromagnetic inlet valve for liquids and an electric contact which auto matically stops the filling when the weight of the liquid in the vessel reaches the limit set by the scales. There is 1 diagram. 1. Manometers-Design 2. Manometers-Equipment 3. ManometerPerformance 4. Liquid level control	PERIODICAL:	Izmeritel'naya tekhnika, 1958,	Nr 1, pp 36 - 37 (USSR)
Performance 4. Liquid level control	ABSTRACT:	and scales designed by the aut tity of liquids by weight with the process of filling. The d inlet valve for liquids and an matically stops the filling wh in the vessel reaches the limi is l diagram.	hor, for determining the quan- in tanks or cisterns during evice has an electromagnetic electric contact which auto- en the weight of the liquid t set by the scales. There
Card 1/1		l. ManometorsDesign 2. Manom Performance 4. Liquid level	seese -de-terms
Card 1/1			
	Card 1/1		

ITSKOVICH, Ya.S.; SHPIGEL'GLYAS, A.S.

Automatic TsNIIKHP-0-4-59 make membrane weighing and proportioning station. Trudy TSNIIKHP no.8:34-35 '60. (MIRA 15:8) (Proportioning equipment) (Automatic control)





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GORDIYENKO, N.V., inzh.-zemleustroitel'; SHPIGEL'MAN, A.E., inzh.zemleustroitel Some possibilities for more efficient land use. Zemledelie (MIRA 12:3) 7 no.2:81-82 F '59. (Belgorod Province--Lend) THE REAL





Continuous Billet Mills		
 Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 115 (USSR) AUTHORS: Brovman, M.Ya., Shpigel'man, R.M. TITLE: The Turning of Metal in Rolling on Continuous Billet Mills (Kantovka metalla pri prokatke na nepreryvno-zagotovochnykh stanakh) PERIODICAL: V sb.: Prokatn. i trubn. proiz-vo. Moscow, Metallurgizdat, 1958, pp 137-146 ABSTRACT: One of the special features of the rolling of steel on continuous billet mills with horizontal rolls is the need for turning after each stand. Here, the turning process is continuous and is performed by means of helicoidal or roller guides. An attempt is made to provide a theoretical analysis of the turning process from the viewpoint of permissible angles of twist (AT) of the metal, and the added expenditure of energy thereon. An equation is adduced determining the relation of the ultimate AT upon the shape and dimensions of the billet, and also upon the mechanical properties of the material. It is observed that the presence of tangential stresses at the surface of the billet re- 		
 AUTHORS: Brovman, M.Ya., Shpigel'man, R.M. TITLE: The Turning of Metal in Rolling on Continuous Billet Mills (Kantovka metalla pri prokatke na nepreryvno-zagotovochnykh stanakh) PERIODICAL: V sb.: Prokatn. i trubn. proiz-vo. Moscow, Metallurgizdat, 1958, pp 137-146 ABSTRACT: One of the special features of the rolling of steel on continuous billet mills with horizontal rolls is the need for turning after each stand. Here, the turning process is continuous and is performed by means of helicoidal or roller guides. An attempt is made to provide a theoretical analysis of the turning process from the viewpoint of permissible angles of twist (AT) of the metal, and the added expenditure of energy thereon. An equation is adduced determining the relation of the ultimate AT upon the shape and dimensions of the billet, and also upon the mechanical properties of the material. It is observed that the presence of tangential stresses at the surface of the billet re- 		SOV/137-58-9-18962
 TITLE: The Turning of Metal in Rolling on Continuous Billet Mills (Kantovka metalla pri prokatke na nepreryvno-zagotovochnykh stanakh) PERIODICAL: V sb.: Prokatn. i trubn. proiz-vo. Moscow, Metallurgizdat, 1958, pp 137-146 ABSTRACT: One of the special features of the rolling of steel on continuous billet mills with horizontal rolls is the need for turning after each stand. Here, the turning process is continuous and is performed by means of helicoidal or roller guides. An attempt is made to provide a theoretical analysis of the turning process from the viewpoint of permissible angles of twist (AT) of the metal, and the added expenditure of energy thereon. An equation is adduced determining the relation of the ultimate AT upon the shape and dimensions of the billet, and also upon the mechanical properties of the material. It is observed that the presence of tangential stresses at the surface of the billet re- 	Translation f	rom: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 115(USSR)
 (Kantovka metalla pri prokatke na nepreryvno-zagotovochnykh stanakh) PERIODICAL: V sb.: Prokatn. i trubn. proiz-vo. Moscow, Metallurgizdat, 1958, pp 137-146 ABSTRACT: One of the special features of the rolling of steel on continuous billet mills with horizontal rolls is the need for turning after each stand. Here, the turning process is continuous and is performed by means of helicoidal or roller guides. An attempt is made to provide a theoretical analysis of the turning process from the viewpoint of permissible angles of twist (AT) of the metal, and the added expenditure of energy thereon. An equation is adduced determining the relation of the ultimate AT upon the shape and dimensions of the billet, and also upon the mechanical properties of the material. It is observed that the presence of tangential stresses at the surface of the billet re- 	AUTHORS:	Brovman, M.Ya., Shpigel'man, R.M.
ABSTRACT: One of the special features of the rolling of steel on contin- uous billet mills with horizontal rolls is the need for turning after each stand. Here, the turning process is continuous and is performed by means of helicoidal or roller guides. An at- tempt is made to provide a theoretical analysis of the turning process from the viewpoint of permissible angles of twist (AT) of the metal, and the added expenditure of energy thereon. An equation is adduced determining the relation of the ultimate AT upon the shape and dimensions of the billet, and also upon the mechanical properties of the material. It is observed that the presence of tangential stresses at the surface of the billet re-	TITLE:	(Kantovka metalla pri prokatke na nepreryvno-zagotovochnykh
uous billet mills with horizontal rolls is the need for turning after each stand. Here, the turning process is continuous and is performed by means of helicoidal or roller guides. An at- tempt is made to provide a theoretical analysis of the turning process from the viewpoint of permissible angles of twist (AT) of the metal, and the added expenditure of energy thereon. An equation is adduced determining the relation of the ultimate AT upon the shape and dimensions of the billet, and also upon the mechanical properties of the material. It is observed that the presence of tangential stresses at the surface of the billet re-	PERIODICAI	.: V sb.: Prokatn. i trubn. proiz-vo. Moscow, Metallurgizdat, 1958, pp 137-146
		uous billet mills with horizontal rolls is the need for turning after each stand. Here, the turning process is continuous and is performed by means of helicoidal or roller guides. An at- tempt is made to provide a theoretical analysis of the turning process from the viewpoint of permissible angles of twist (AT) of the metal, and the added expenditure of energy thereon. An equation is adduced determining the relation of the ultimate AT upon the shape and dimensions of the billet, and also upon the mechanical properties of the material. It is observed that the presence of tangential stresses at the surface of the billet re-
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APPROVED FOR RELEASE: 08/09/2001

SHPKERIMAN, R.M.

133-58-3-13/29 AJENCRS: Brownan, M.Ya. and Shpigel'man, R.M., Engineera The Dependence of Metal Pressure on Rolls on the velocity IITLE: of Deformation (Zavisimost' davleniya metalla ne velki ot skorosti deformatsii) PERICDICAL: Stal', 1958, Mr 3, pp 230-235 (USSR) A method of calculating the pressure of neural on rolls ABSTRACT: during hot rolling in which the influence of the rolling velocity and changes in the yield stress along the arc of grip are taken into consideration is proposed (Formulae 53, 54). The comparison of the results obtained using Tselikov's, Ekelund's and the author's formulae is shown in the table. Ιt is concluded that: 1) under the influence of the velocity of deformation, the pressure of metal on rolls increases considerably; 2) the use of the proposed method of calculation for alloy steels is difficult due to lack of experimental data on the influence of velocity of deformation on the yield stress. In the majority of existing formulae, the influence of the velocity of deformation is taken into consideration only approximately, assuming the constancy of the yield stress along the arc or grip. With increasing rolling velocity and widening of the production of alloy steels, the influence of file velocity of deformation becomes more important.

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NOVITSKIY, S.V.; SHPIGEL'MAN, S.D.

Case of acute intestinal obstruction with ascariasis treated by enterotomy with extraction of helminths and a one-stage administration of oxygen during surgery. Nov.khir.arkh. no.4:99 Jl-Ag ¹59. (MIRA 12:11)

1. Zastavnovskava ravonnava bol'nitsa, Chernovitskov oblasti. Adres Novitskogo: Zastavna, Chernovitskov obl., Ravonnava bol'nitsa.

(INTESTINES--OBSTRUCTIONS) (ASCARIDS AND ASCARIASIS) (OXYGEN--THERAPEUTIC USE)

APPROVED FOR RELEASE: 08/09/2001



CIA-RDP86-00513R001549920018-2

SAPIELL WAN, YE.S. USSR/Processes and Equipment for Chemical Industries -K-2 Control and Measuring Devices. Automatic Regulation. Abs Jour : Referat Zhur - Khimiya, No 9, 1957, 33334 Author : Finkel'shteyn, V.Ye., Shpigel'man, Ye.S., Kandyba, V.V. Inst Title : EOP-51M and OP-48M Pyrometers for Measuring Temperatures Up to 6000°. Orig Pub : Izmerit. tekhnika, 1956, No 5, 52-54 Abstract The apparatus described have been developed at the Khar'kov State Institute of Measures and Measuring Instruments, on the basis of the OP-48 and EOP-51 pyrometers. The glass absorbers of both pyrometers, which are required to make possible an expansion of the scale up to 6000°, were made, of a larger diameter, from PS-2 glass 4.71 mm thick and were mounted on the objective of the apparatus in lieu of being set in front of the pyrometric bulb; their pyrometric attenuation is of about 430 . 10⁻⁶ degree-1. Card 1/2

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APPROVED FOR RELEASE: 08/09/2001



SHPIGEL'MAN Ye.S.; KANDYBA, V.V.

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Solar radiation used in calibrating of high-temperature optical pyrometers. Izm. tekh. no.2:29-31 Mr-Ap '57. (MLRA 10:6) (Calibration) (Pyrometers) (Solar radiation)

APPROVED FOR RELEASE: 08/09/2001

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1.5

 Vassoyuznyy nauchno-issledovatel'skiy institut metrologii imeni D.I. Wendeleyva Vassoyuznyy nauchno-issledovatel'skiy institut metrologii imeni B.Fersty nuuchno-issledovatel'skix rabot; sbornik No. 2 (Scientific StandartEgr. 1956. 139 p. 1,000 coptes printed. Radditional Senori Senori VISSR. Komitet standartov, mer i izmeritel'nych priborov: Midditional Senori J.S.R. Kaitet standartov, mer i izmeritel'inych priborov: Midditional Senori Senori Ed.: N. A. Kondrat'yeva. Mittional Senorical: Tach. Ed.: N. A. Kondrat'seva. Mittional Senorical: Tach. Ed.: N. A. Kondrat's, messarrei, and angurers engaged in developing standards, measures, and segse for the varius industiely. COVERAGE: The volume contains 128 reports on standards, measures, and segses for the variations indeveloping standards, measures, and mastress, and Musauring Institutes are: WRIM - institutes of the Kantet's Enderrow in the USS consult of Ministers. The Analer's Enderrow is standards, measures, and mastures, and Musauring Institutes are: WRIM - institutes for the Analer's Handirow MRIM - institutes are institute of the Analor's Manderlow for the Ministers. The Analer's Standardy Strattures are: MILL OND Scientific Research Institutes of Measures (All-Union Scientific Research Institutes of Measures (All-Union Scientific Research Institutes of Measures (All-Union Scientific Research Institutes of the Analores Manderlow for the institute of the Manderlewing Research Institute of the Manderlewing Research Institute of Measures (Mallenders Measures) and Manuering Institute Measures in Moscowi KNUMP - KNar'Kovaky Scientific Measures and Measuring Institute of Measures Mirakity Scoudars in Moscowi KNUMP - KNar'Kovaky Scientific Measures in Measures and Measures and Measures and Measures Mirakity Scoudars in Moscowi KNUMP - KNar'Kovaky Scientific Measures and Measuring Institutes and Measures and Measures Mirakity Scoudars in Moscowi KNUMP - KNar'Kowaky Scientific Measures and Measur	Form. A. C. A. A. C. A. M. C. DOLEY, [Deceased] (WIIM). 133 - 00. 133 - 00. 139 - 00. 139 - 00. 139 - 00. 130 - 00. 130 - 00. 131 - 00. 131 - 00. 131 - 00. 132 - 00. 133 - 00. 134 - 00.	
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AUTHOE:	Shpigel'man, Ye.S.	sov/115-58-6-25/43	•
TITLE:	Surface Thermocouples (Poverkhnostnyye te	rmopery)	
PERIODICAL:	Izmeritel'naya tekhnika, 1958, Nr 6, pp 60	0-61 (USSR)	
ABSTRACT:	The dispersion of readings of present surf reaches 30 to 40° C for temperatures aroun more for higher temperatures. The inertia ribon and a disc thermocouple are described a higher accuracy of measurement. The ribbo (Figure 1) consists of two strips 0.2 mm the The disc thermocouple (Figure 2) consists 0.5 mm thick and 7 mm in diameter with fou thermo-electrodes. Their dispersion does a temperature of 450° C. The error in the 100 to 500° C does not exceed \pm 1.5 % for \pm 2.5 % for the ribbon thermocouple. The in and 25-30 sec respectively. There are 2 diagrams.	nd 200°C and still a is 1-3 min. A bere which reach m thermocouple nick and 5 mm broad. of a copper disc ar openings for not exceed 2°C at e temperature range the disc and	
Card 1/1			

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	sov/58-59-8-18972	
monslated from	m: Referativnyy Zhurnal Fizika, 1959, Nr 8, p 272 (USSR)	
	Shoigel'man, Ye.S., Kandyba, V.V.	
AUTHORS:	Extending the Range of the "EOP-51M" Pyrometer up to 6,000° and 10,000°C	
TITLE	Tr. Vses. n1. in-ta metrol., 1958, Nr 35 (95), pp 60-69	6
PERIODICAL;	the second s	
ABSTRACT :	The range of the "EOP-51M" pyrometer, originally calibrated up to 4,000°C, was extended up to $6,000^\circ$ and $10,000^\circ$ C by using two absorbers made of "PS-2" purple glass. The magnitudes of the pyrometric attenuation of the absorbers were determined, as well as their variations with a variation in the apparent brightness temperature. Strictly speaking, the calibration of the scale was made according to the formula $1/T_0 - 1/T_W = A$, where T_0 is the apparent brightness temperature, corresponding to some intensity of the current of the pyrometric tube, and A is the pyrometric attenuation of the absorber. The value T_W thus obtained, which is the approximate value of the measured temperature, is adjusted by the correction $T - T_W$, computed on the basis of allowance for the inaccuracy of Wien's formula. The error in calibrating the scale	
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	ระการให้มีมีการสารประการสารสารสารสารประการสารประการการสารประการสารประการสารประการประการประการประการประการสารปร สารประการประการประการประการประการประการประการประการประการประการประการประการประการประการประการประการประการประการ	

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 sov/58-59-8-18972

 Extending the Range of the "EOP-51M" Pyrometer up to 6,000° and 10,000°C

 is compounded of the errors involved in calibrating the pyrometer's basic scale, measuring the pyrometric attenuation and determining the correction T - T_w. The root-mean-square error is equal to 50°C at a temperature of 6,000°C and to 160°C at a temperature of 10,000°C. The obtained estimates are apparently very oversitated.

 Ye, Antropov

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9,4170 (114 Authors :	201,11 S/115/61/000/003/004/013 B124/B204 Shpigel'man, Ye. S. and Golub, L. M.
TITLE:	The dependence of the thermal electromotive force of the TEPA-50/900-1800 (TERA-50/900-1800) telescopes on temperature
PERIODICAL	Izmeritel'naya tekhnika, no. 3, 1961, 16-17
TEXT: For simple and	the ideal case that the scheme of the radiation pyrometer is contains no reflecting and refracting systems, the relation
depending o	T^4) (1) holds for the variation of the thermal e.m.f. as n^0 the temperature of the black body at all wavelengths. denotes the temperature of the source (of the black body) and erature of the receiver. Since the coefficient of total
transmissiv	ity of the optical system of rational telescopes varies with to quite some extent, (1) can only difficultly be satisfied, endence of e on T may be rendered by the relation
and the dep	endence of e on I may be rendered by the relation
and the dep	T_0^b (2), where b denotes a factor which is constant for every

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The dependence of the ...

device and whose numerical value varies between 3.5 and 4.5. The size of the source and its distance from the telescope are in this case assumed to be constant. For pyrometers with a lower measuring limit of 900°C and more, $T^{b}_{,o}$ is very small as compared to T^{b} , and therefore the equation $e = aT^{b}$ (3) is correct for practical purposes. The calibration curve plotted according to (3) in logarithmic coordinates, is a straight line according to which radiation pyrometers may be calibrated up to 1300 - 1400°C; at higher temperatures, the values of the thermal e.m.f. must be ascertained by extrapolation. Work carried out at the KhGIMIP (Khar'kov State Institute of Measures and Measuring Instruments) showed that a discrepancy highly exceeding the trouble in calibration exists between the experimental log e-versue-log T curve and that calculated according to (3). The authors examined 10 radiation pyrometers (type TERA-50) with glass lens and a factor of sighting 1/20 in order to find an analytical equation for a sufficiently exact description of the dependence of the thermal e.m.f. on the temperature of the telescope. The results were evaluated according to the method of the least squares and expansion of Eq. (3) into a series, with t^oC taken instead of T^oK. The

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The dependence of the...
fourth-order equation $e = at + bt^2 + ct^3 + dt^4$ (4) rendering the mentioned dependence the most exactly was found. It was further found that the best suited temperatures in plotting the curve of Eq. (4) according to four measured points, are at 1000, 1200, 1400, and 1600°C. On the basis of the thermal e.m.f. at the above temperatures for each of the telescope investigated, the system of equations $e_1 = a1000 + b1000^2 + c1000^3 + d1000^4$ $e_2 = a1200 + b1200^2 + c1200^3 + d1200^4$ $e_3 = a1400 + b1400^2 + c1400^3 + d1400^4$ (5) $e_4 = a1600 + b1600^2 + c1600^3 + d1600^4$ was solved. Therefrom, the coefficients a_1 , b_1 , c_1 , and d_1 were calculated for all telescopes. Table 2 shows the values of the thermal e.m.f. as obtained on experimental calibration of seven telescopes according to the "black" emitter and calculated from the coefficients a_1 , b_1 , c_1 , and d_1 from (5), as well as the values Δt which denote the difference between the experimental and calculated thermal e.m.f. In this case, Δt is much Card 3/5

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The dependence of the ...

smaller than 2 σ (σ stands for the mean square error of second-class radiation telescopes, which amounts to ± 2.5 °C in the range of from 900 to 1300°C, and to ± 4 °C in the range of from 1400 to 1800°C). Only at some telescopes, Δt at 1800°C is somewhat greater than 2 σ . There are 2 tables.

Card 4/5

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L 10304-66EWT (1) GW -	
ACC NR: AP6000033 SOURCE CODE: UR/0115/65/000/010/0050/0051	
AUTHOR: Golub, L.M.; Finkel'shteyn, V. Ye.; Shpigel'man, Ye. S.	
TITLE: A method for expanding the range of a radiation pyrometer in the high- temperature region	
SOURCE: Izmeritel'naya tekhnika, no. 10, 1965, 50-51	
TOPIC TAGS: meteorologic instrument, radiation pyrometer, telescope, optic black body $13,44,55$	
ABSTRACT: From the meteorologic viewpoint, one of the practical disadvantages of telescopes of radiation pyrometers is that they are calibrated directly by "black body" emitters, as a result of which the upper temperature limit is restricted by the maximum working temperature of this emitter. It is desirable to have a method of range expansion which would make it possible to construct the range by means of calculations, but which would be free of any assumptions regarding the optic pro- perties of the telescope itself. The authors propose the application of a method widely known in optical pyrometry, but never used in radiation pyrometry. The method is based on the following. In measuring high temperatures the light flux is attenuated by a glass selective absorber, the transmission γ_{1} of which, in the	
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ACC NR: AP6014526 SOURCE CODE: UR/0115/65/000/011/0066/0067	
AUTHOR: Golub, L. M.; Finkel'shteyn, V. Ye.; Shpigel'man, Ye. S.	
ORG: None	
TITLE: A new "black body" radiator for the 1500-3000°C temperature range	
SOURCE: Izmeritel'naya tekhnika, no. 11, 1965, 66-67	
TOPIC TAGS: black body radiation, radiation measurement, pyrometer	
ABSTRACT: The authors describe a "black body" radiator developed at the Kharkov State Institute of Measures and Measuring Instruments for graduating the telescopes	of
radiation pyrometers with a sighting index of 1/40 (and less) in the 1500-3000°C tem (perature range. The radiator (see figure) is an electric resistance furnace in whice	1- 2h
the heating element is graphite tube 1 400 mm long with an inside diameter of 25 mm and a wall thickness of 3 mm. A screw thread is cut inside the tube for holding gra	
phite partition 2 and diaphragms to increase the blackness of the radiating cavity. The heater is placed in a cylindrical metal housing 3 with double walls for passage	
running water. Inside the housing is a graphite screen 4 in the form of a tube with	1
fireclay rings 5. The screen and rings separate the furnace housing from the heater tube. The space between the housing and screen is filled with a heat insulation ma-	
terial/(carbon black) 6. The furnace is covered on both sides by metal lids with dou	ıble
Cord 1/2 UDC:681.2.089.6:536.521.2	

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L 45604-56 ACC NR: AP6014526 0 walls cooled by running water. The heater (graphite tube) is threaded.into movable 7 and stationary 8 metal flanges which simultaneously serve as current conductors. The movable flange is necessary for expansion of the heated tube. Both flanges are equipped with glass windows 9 with metal baffles to avoid burn-through of the graphite heater. Argon is fed through pipe branches in the movable flange for the same purpose. The maximum working temperature of 3000°C is reached in one hour at a power of 20 kw. Radiation blackess is 0.980±0.015. Orig. art. has: 1 figure. SUB CODE: 20/ SUBM DATE: None Card 2/2 pla

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25 (1,7) PHASE I BOOK EXPLOITATION SOV/1687
Gladkov, B. A., L.N. Grachev, P.M. Shpigel'shteyn, V.A. Kudinov, A.S. Lapidus, G.M. Azarevich, Yu. A. Leshchenko
Modernizatsiya tokarnykh stankov; rukovodyashchiye materialy (Modernization of Lathes; Instructions) Moscow, Mashgiz, 1958. 286 p. 6,800 copies printed.
Sponsoring Agency: Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.
Ed.: A.Ye. Prokopovich; Ed. of Publishing House: N.A. Ivanova; Tech. Ed.: Ye. N. Matveyeva; Managing Ed. for Literature on Metal Working and Tool Making: R.D. Beyzel'man, Engineer.
PURPOSE: This book is intended for manufacturing personnel dealing with the operation of machine tools, and for designers in plant machine-shops, and engineer-technologists.
Card 1/5

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SVIRIDENKO, S.Kh.; AKHMECHET, L.S.; VOLKOV, A.A.; MEYSTEL', A.M.; MIZHEVSKIY, L.L.; POLYAKOV, L.M.; RASHKOVICH, M.F.; SRIEHER, L.A.; KHVALOV, Yu.G.; SHPIGLER, L.A.; SHRAGO, L.K.; ORLIKOV, M.L., inzh., retsenzeht; SVECHNIKOV, L.V., inzh., retsenzent; MATSIYEVSKIY, A.G., inzh., red.

> [Elements of the automation of machine tools] Elementy avtomatizatsii metallorezhushchikh stankov. Moskva, Mashgiz, 1964. 210 p. (MIRA 17:12)

APPROVED FOR RELEASE: 08/09/2001





<u>L 00724-67 EWT(m)/EWP(j)/T IJP(c) RM/WW</u> ACC NR: AP6024845 AUTHOR: Klechkov, V. P.: Shpirup A. A. H. H. H.	
AUTHOR: <u>Klochkov, V. P.; Shpigun, A. A.; Ul'berg, Z. R.;</u> Prikhod'ko, G. P.; Ivanova, Ye. I.; Kabakchi, A. M.; Meleshevich, A. P.; Natanson, E. M.	
ORG: Institute of General and Inorganic Chemistry, AN UkrSSR (Institut obshchey 1 B neorganicheskoy khimii AN UkrSSR) TITLE: X-ray diffraction study of ED-5 epoxy-diane resin irradiated with Co60 gamma rays and of metallopolymers based on it SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 32, no. 4, 1966, 366-370	7
TOPIC TAGS: metallopolymer material, epoxy plastic, resin, irradiation effect, gamma	
ABSTRACT: The effect of gamma irradiation on the molecular structure of ED-5 epoxy- diane resin and metallopolymers prepared/from it and containing from 1 to 6% copper and 5% lead was studied by using a URS-50 I diffractometer and a scintillation method. The irradiation of purified uncured ED-5 resin and its mixtures with colloidal metals of Ra). A distinct structure appeared in the resin as a result of the irradiation: found to accelerate the ordering effect in the resin. An appreciable increase in the degree of crystallinity was produced by the irradiation in the binary system ED-5 + 6%	
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17(SOV/177-58-9-38/51	
AUTHOR:	Shpigunov, F.A., Colonel of the Medical Corps	
TITLE:	Immunological Effectiveness of Living Varialovaccine, Brucellar Vaccine and Polyvaccine of the NIIST When Simultaneously Applied	
PERIODICAL:	Voyenno-meditsinskiy zhurnal, 1958, Nr 9, pp 84-85 (UBSR)	
ABSTRACT:	The immunobiological effectiveness of the variation vaccine and the components of polyvaccine was studied in rabbits, and of brucellar vaccine, in guinea-pigs. The study of the immunological effectiveness of combined inoccula- tion was carried out in comparison with the effectiveness of monovaccination with vaccines being a part of the combination. Both, rabbits and guinea pigs, took the vaccination without any reaction. The results obtained in various animal experiments warrant the conclusion that the immunological effectiveness of variolovaccine, tetanus, abdominal typhus parathyphus B and dysenteric	-
Card 1/2		

SHPIGUNOV, F.A.

a state was shall be a sub-

Immunological effectiveness of certain components of the polyvaccine developed by the Experimental Sanitation Research Institute when combined with live smallpox and brucellosis vaccines. Zhur.mikrobiol. epid. i imun. 30 no.1:24-28 Ja '58. (MIRA 12:3)

l. Iz kafedry mikrobiologii Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.

(VACCINES AND VACCINATION, immunol. eff. of polyvaccine against enteric dis. assic, with live smallpox & brucellosis vaccines (Rus))

APPROVED FOR RELEASE: 08/09/2001

SHPIGUNOV, F.A.

Immunological effectiveness of live vaccines associated with polyvaccine NIISI. Report No.2. Zhur.mikrobiol.epid. i immun. 30 no.4:19-23 Ap '59. (MIRA 12:6)

1. Iz kafedry mikrobiologii Voyenno-meditsinskoy akademii imeni
Kirova.
(VACCINES AND VACCINATION,

immunol. effectiveness of various live vaccines assoc. with polyvaccine MIISI (Rus))

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SHPIGUNOV, F.A.

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Immunological effectiveness of smallpox vaccine combined with live brucellosis vaccine. Zhur, mikrobiol., epid.i immun. 30 no.11:25-28 (MIRA 13:3) N '59.

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova. (SMALLPOX immunol.) (BRUCELLOSIS immunol.) (VACCINATION)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920018-2 9 PUKHOVSKIY, Ye.P.; ZAKHAROVA, P.A.; SHPIGUNOVA, N.A.; BUDAYEV, G.P. Sulfidization of chromium stainless steel. Metalloved.i obr.met. (MLBA 9:8) no.5:40-43 My '56. 1. Kaluzhskiy turbinnyy zavod. (Steel, Stainless)





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SHPIKIN, A.A., polkovnik med. sluzhby, dotsent Some data on the medical service of the United States Navy; based on data from foreign literature. Voen.-med.zhur. no.6:82-86 164. (MIRA 18:5) ť



SHFIRITE, j(.0. TUSTANOVSKIT, A.A.; SHFIKITER, V.O. Initial structural changes in procollagen during denaturation. Vop.med.khim. 4:70-82 '52. (MIRA 11:4) 1. Laboratoriya khimii tkanevykh belkov Instituta biologicheskoy i meditsinskoy khimii AMNI SSSR, Moskva. (PROCOLLAGEN) (HEAT--PHISIOLOGICAL EFFECT)

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一般などの注意

USSR/Biolo	NEX.	- Biochemistry		
Card 1/1		Pub. 22 - 35/49		
Authors	\$	Orekhovich, V. N., Act. Memb., Acad. of Med. Sc., USSR; and Shpikit	ter, V. O.	
Title	t	Study of certain properties of denatured procollagen by means of an ultracentrifuge		► Norma Norma Norma
Periodical		Dok. AN SSSR 101/3, 529-530, Mar 21, 1955		
Abstract		It was determined on the basis of experimental works that native pr lagen represents a complex of two or more albumina components. A s of procollagen properties, by means of the Svedberg ultracentrifuge showed that the procollagen components have relatively weak bonds a unusually high viscosity whereas the products of denatured procolla have a very low viscosity. Three references: 2 USSR and 1 English 1952). Graphs.	itudy ind igen	
•	E	It was determined on the basis of experimental works that native pr lagen represents a complex of two or more albumina components. A s of procollagen properties, by means of the Svedberg ultracentrifuge showed that the procollagen components have relatively weak bonds a unusually high viscosity whereas the products of denatured procolla have a very low viscosity. Three references: 2 USSR and 1 English	itudy ind igen	а. 1
Abstract Institution Submitted		It was determined on the basis of experimental works that native pr lagen represents a complex of two or more albumina components. A s of procollagen properties, by means of the Svedberg ultracentrifuge showed that the procollagen components have relatively weak bonds a unusually high viscosity whereas the products of denatured procolla have a very low viscosity. Three references: 2 USSR and 1 English 1952). Graphs.	itudy ind igen	и 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.

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Shpikiter, U.O. Į: Role of active center of trypsin in formation of complex with ovonuscoid. M. P. Chernikov and V. O. Shpikler. Doklady Akad. Nauk S.S.R. 104, 760-2(1955).—Centrif-ugal sedimentation of ovonuscoid (from fractionated err M) protein) and disopropyiphosphoryitrypsin (I) in phosphate buffer at pH 5 was examd. The typical sedimentation curves are reproduced. Inactive I does not complex with ovonuscoid at all, but the active trypsin forms a complex which has a sedimentation rate some 50% greater than that of the components alone. The complex migrites to the anode more slowly than does ovonuscid alone. The block-ing of trypsin action by disopropyl fluorophosphate is prob-ably connected with loss of ability of protein complex for-mation at the active center of the enzyme. C.M.K Inst Bid + Mid. Chew, AMS USSIR

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in Lillin, V. C. and Chemin Vich, V. H.

"Physicochemical Nature of Procollagen,"

paper submitted to the Conference on Advances in Gelatin and Glue Research, Univ. of Cambridge, England, 1-5 July 1957.

Translation - Encl. A-3098181, 11 Feb 1958

Inst. of Biological and Medical Chemistry, Acad. Med. Sci. USSR, Moscow

APPROVED FOR RELEASE: 08/09/2001

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Concentration of the

SHFIFITFR, V. O. and CREKHOVICH, V. H.

"Frocollagens - A Citrate-soluble Fraction of Collagen is assumed to Form a Special Group of Connective Tissue Froteins." <u>Science</u>, 13 June 1958, Vol. 127, No. 3311.

Inst. Biological and Med. Chem., Acar. Medical Sci. USSA, Moscow, (Dir. - Dr. Orekhovich)

This article is based on a paper which $^{\rm D}r.$ Grekhovich presented at Mass. Gen Hospital, Boston, 11 Dec 57.

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OREKHOVICH, V.N.; PAVLIKHINA, L.V.; SHPIKITER, V.O.

Mature of the alkali-soluble fraction of collegen (with summary in

English). Biokhimita 22. no.1/2:210-213 Ja-7 '57. (MLRA 10:7)

1. Institut biologicheskoy i meditsinskoy khimii Akademii meditsin-

skikh nauk SSSR, Moskva.

(COLLAGEN,

alkali-soluble fraction (Rus))
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SHFIFTER, YEL

20-1-37/54 OREKHOVICH, V.N., Regular member of the scadery of Medical Sciences AUTHOR of the U.S.S.R., and SHPIKITER, V.O. Isolation of α_{-} and β_{-} Components of Procollagen TITLE (Vydeleniye α- i β-komponentov prokollagena. Russian) Doklady Akademii Nauk SSSR, 1957, Vol 115, Nr 1, pp 137-Llo(U.S.S.R.) PERIODICAL When investigating the sedimentation of procollagen in a 3 M urea ABSTRACT solution the authors observed a decomposition of protein after lo min. heating at 30 °C. This permits the conclusion that the procollagen molecule represents a two-component complex. These complexes are bound together in their native structure by comparatively weak , perhaps saline or hydrogen linkage. This splitting in two was also observed on sedimentation of procollagen solutions which were previously treated with 5 M KCNS in a phosphate buffer solution at room temperature, or which were heated for 20 min. at 70°C as suspensions in such a solution (pH 8). This indicated that the liberation of individual components takes place under the influence of various actions (temperature, urea, KCNS) which lead to the splitting of weak non--valent linkages. One of the objects of further studies was the isolation of individual components. The decomposition products of procollagen in their chemical composition and several physical properties are somewhat like gelatin. Therefore the authors employed a number of methods which earlier served in the fractioning of gelatin. Card 1/3

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	20-1-37/54
•	Isolation of α - and β -Components of Procollagen
	gen were produced. In a comparison of the chromatograms of all three preparations no marked difference in the content of amino acids were found. According to provisionary results the amount of oxyprolin in the β -component is smaller than in the two dhers. The α -component contains somewhat of this acid more than procollagen. Finally pub- lished data are analyzed. (With 3 illustrations, 1 Slavic reference).
ASSOCIATION PRESENTED BY	Not given
SUBMITTED	18,1,1957
AVAILABLE	Library of Congress
Card 3/3	
	· ·



AUTHORS:	Eazakova, O. V., Member AMN SSSR, JU1/20-120-7-j0/03 Orekhovich, 7. N., Shpikiter, V. G.	
TITLE:	The Influence of Temperature Upon the Velocity of Frocollagen Splitting by Collagenase (Vliyaniye temperatury na skorost' rasshchepleniya prokollagenov kollagenazoy)	
PERIODICAL:	Doklady Akademii Nauk CEER, 1958, Vol. 120, Nr 2, pp. 359-360 (USSR)	
ABSTRACT:	The present paper deals with this influence with regard to soluble collagens of the skin of rats, the skin of the air bladder of the carp (Ichthiokoll) and the skin of the cod- fish. These proteins approximately have the same molecular weights and size of molecules (reference 1) as well as a similar configuration of the polypeptide chains. On the other hand they differ by the quantitative content of cxyproline (reference 2). The latter fact causes a different temperature of the heat-denaturation of procollagens in the solution which is accompanied by a splitting of hydrogen chains and by the decomposition of molecules into their component parts (references 1,3-5). The collagenase preparation was produced	
Card 14	of a filtrate of <u>Clostridium histolyticum</u> culture by means of	

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The Influence of Temperature Upon the Velocity of Procollagen Splitting by Collagenase SUV/20-120-3-95/99

> precipitation with ammonium sulfate (reference 6). A dialysis against water and drying in a vacuum from a frozen state follow. The proteins were extracted from small pieces of tissue by acid citrate-buffer and produced by dialysis of the extracts against a double substituted sodium-phosphatesolution. Figure 1 shows the velocity curves of the splitting of different procollagens by collagenase (curves A, B, V) in dependence on temperature; the velocity is expressed in conventional units. The velocity curves of heat-denaturation (curves a,b,v) are given in the same figure in the same units. As may be seen from this a very intensive splitting of the procollagen of rat skin takes place at $24^{\rm o}$, the same velocity is observed in the carp at $18^{\rm c}$, and in the protein cf codfish at 10° . The denaturation of the same proteins only sets in at $_{2}\circ$, 28 and 12° . Thus it becomes clear that collagenase already acts intensively enough at temperatures at which no denaturation does yet occur, and the criginal configuration of the substrates is preserved. Nevertheless the hydrogen bonds must be weakened with a temperature increase and the inner stability of the molecules reduced.

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The Influence of Temperature Upon the Velocity of SUV/20-120-2-38/63 Frecollagen Splitting by Collagenase

This weakening is not sufficient for the molecule decomposition, but suffices for making the substrate susceptible to the influence of the enzyme. In other words, an unstable state of the substrate is necessary for the action of collagenase. The higher this state, the faster is the velocity of splitting. The position of the velocity curves of splitting can be explained by a different degree of the natural stability of molecules of the investigated proteins. In any case further investigations in this field are necessary. There are 1 figure and 9 references, 2 of which are Soviet.

- ASSOCIATION: Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR (Institute of Biological and Medical Chemistr: Academy of Medical Sciences, USSR)
- SUBMITTED: January 27, 1958

Card 3/4

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920018-2

AUTHORS:	Kazakova, C. V., Orekhovich: V. N., SOV/20-122-4-33/57 Hember, Academy of Medical Sciences, USSR, Shpikiter,
TITLE:	V. O. On the Nature of the Bonds Subject to Splitting by Collagenase (Oprirode svyazey, rasshcheplyayenykh kollagenazoy)
PERIODICAL:	Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 4, pp 657 - 660 (USSR)
ABSTRACT:	It is of interpot that the collagenase has an astonishingly narrow specific effect, being able alone to split the proteins of the collagen group. The explanation of this manifestation might give valuable evidence on the mode of action of this ferment. After a survey of publications (Refs 1-6) the authors stated that both the ferment itself and the mechanism mentioned are but little investigated. Therefore, the problem under review is of great importance. As substrate, procollagen from the skin of rats was used that was extracted by citrate buffer, and was well washed and dried in vacuo in frozen state. The starting material for the pro-
Card 1/3	duction of collagenase was a filtrate from the

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On the Beture of the Boads Subject to Splitting by SOV/20-122-4-33/57 Collagenage

culture of "Cl.histolyticum" (produced in Institut epidemiolo, ii i mikrobiologii ALN SSSR= Institute of Epidemiology and Microbiology of the Academy of Medical Sciences, USSR). The electrophoresis (method according to Gallop, Ref 7) was carried out at 4° for 18-20 hours at a current of 30 mA. After termination of the electrophoresis, the starch slab was cut in stripes of 1 cm from which eluates of 10 ml each were produced by means of 0,9% salt solution. In these the content of collagenase- and nonspecific proteinase activity was investigated. To the determination of the nonspecific activity the method according to Gallop (Ref 7) was applied and completed. The method of milk precipitation was used, since the proteolytic ferments of <u>Cl.hictolyticum</u> coagulate the milk well, whereas collagenase is not capable of doing so (Ref 8). Figure 1 shows the distribution of the collagenaseand of the nonspecific proteinase-activity in the starch block. From these results it may be concluded that the collageness represents a specific proteinase that splits

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SHPIKITER. V. Q., OREXHOVICH, V. N., GINODMAN, L. M., LOKSHINA, L. A., SKLOEOVSKAYA, M. V., AND SOLONVYEVA, N. I. (USSR)

"Some Observations on the Structure and Mechanism of Action of Proteinases."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 August 1961

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TORCHINSKIY, Yu.M.; SHPIKITER, V.O.

Interaction between sodium dodecyl sulfate and aspartate-glutamatetransaminase. Dokl. AN SSSR 152 no.3:751-753 S '63. (MIRA 16:12)

l. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN
SSSR i Institut biologicheskoy i ...meditsinskoy khimii AMN SSSR.
Predstavleno akademikom V.A.Engel'gardtom.

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LEVDIKOVA, G.A.; OREKHOVICH, V.N.; SOLOV'YEVA, N.I.; SHPIKITER, V.O. Dissociation of collagenase molecules into subunits. Dokl. AN SSSR 153 no.3:725-727 N '63. (MIRA 17:1) Institut biologicheskoy i meditsinskoy khimii AMN SSSR.
 Deystvitel'nyy chlen AMN SSSR (for Orekhovich).



Method for studying biopolymers with the help of analytic ultracentrifuge. Sovr. metod. v biokhim. 1:5-37 '64. (MIRA 18:5)

APPROVED FOR RELEASE: 08/09/2001

POGLAZOV, Boris Fedorovich; SHPIKITER, V.O., doktor biol. nauk, otv. red.; UMRIKHINA, A.V., red.

[Structure and functions of contractile proteins] Struktura i funktsii sokratitel'nykh belkov. Moskva, Nauka, 1965. 222 p. (MIRA 18:7)

LIVANOVA, N.B.; PIKHELGAS, V.Ya.; SHPIKITER, V.O. Transformations of phosphorylase B in acid and alkaline media. Dokl. AN SSSR 161 no.5:1222-1223 Ap '65. (MIRA 1 (MIRA 18:5) 1. Submitted July 3, 1964.

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CIA-RDP86-00513R001549920018-2

FALMARY, C.L.; CHELE, MR, V.C.

Forecession of aspertate-domentiase into submits in acid and alkaline modium, holl, ill Godd 163 no.4:1011-1013 Ag ^{165.} (MIRA 18:8) 1. Enstitut reduccionney & Fictic khimicheskey biologii AN CSSR i Institut biologic backer & reduccinskey khimid AMN FICE. Submitted Outpher 13, 1964.

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OREKHOVICH, V.N.; SHPIKITER, V.O.

Certain problems involved in the study of the quaternary structure of proteins. Ukr.biokhim.zhur. 37 no.5:769-777 '65. (MIRA 18:10)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR, Moskva.

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Contraction of the second s

SHPIKOV, A.B.

Yield limit as a generalized index of ground composition and properties. Trudy Gos.inst. po. proek. mor. por. i sudorem. pred. no.6:79-86 '59. (MIRA 14:3) (Soil mechanics)

APPROVED FOR RELEASE: 08/09/2001

SULEYMANOV, D.M.; SHPIKOV, A.B.

Characteristics of Quaternary clay rocks in Baku Bay from the viewpoint of engineering geology. Uch.zap. AGU.Ser.geol.-geog.nauk no.5: 21-29 '61. (MIRA 16:9)



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يدارك مرابعات ويادا معتقا ومعقد المتعاصية ومعتقد والمعاصية ويعاور والمتعاد والمالية Might of public influence. Pozh.delo 3 No.6:7 Je '57. (Odessa-Fires and fire prevention)



Electric welding shops on tankers are indispensable. Mor.flot 25 (MIRA 18:2) no.1:44 Ja '65.





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317月4月3月3月4日1日4月3日4月3日

国家にはなった後年の行きためのでも出

CHUYKO, V.T.; CHUBKO, N.M.; SHPIKULA, V.M.

Determination of copper in biological material and its concentration by coprecipitation. Lab. delo 7 no.2:33-36 F '61. (MIRA 14:1)

l. Kafedra neorganicheskoy khimii (zav. - dotsent V.T.Chuyko) i kafedra fakul'tetskoy khirurgii (zav. - prof. A.G.Martynyuk) Ternopol'skogo meditsinskogo instituta (dir. - dotsent P.Ye.Ogiy). (COPPER-ANALYSIS)

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