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Float	ing of	a bo	dy on	the s	urface o	f water.	Fiz.	v shkole	no. 4,	1952.		
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GRABOVSKIY, M. A.

USSR/Geophysics - Ferrites Sep/Oct 52 "Magnetic Properties of Ferrites and Their Significance in Geophysics," M. A. Grabovskiy, Geophys Inst, Acad Sci USSR "Iz Ak Nauk SSSR, Ser Fiz" No 5, pp 41-46 Brief survey devoted to analysis of phys and structural properties of ferrites--binary oxides formed by Fe2O₃ with oxides of other divalent metals. Author derives some geophys conclusions on existence of ferrites in natural state. Indebted to A. G. Kalashnikov. Received 14 Apr 52. 226756

APPROVED FOR RELEASE: 03/13/2001

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APPROVED FOR RELEASE: 03/13/2001

BRARL

GRABOVSKIY, M. A.	Sep/Oct 53	
USSR/Geophysics - Magnetite		
"Variations of Magnetic Properties of Magnetites Und	er the Action of Large Compressing	
Stresses," M. A. Grabovskiy and E. I. Parkhomenko, G	eophys Inst, Acad Sci USSR	
Iz Ak Nauk SSSR, Ser Geofiz, No 5, pp 405-417		
Investigate the magnetic properties of magnetite sam	ples subjected to uniaxial	-
compression due to hydrostatic pressure. Relate res	ults to present-day views on	
ferromagnetism. Derive several geophys conclusions.		
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USSR/Geophys		M.A. - Reverse thermoremanent magnetism	FD 394
Card 1/1			
Author	:	Grabovskiy, M. A., and Pushkov, A. N.	
Title	:	Problem of the origin of residual magnetization of rev minerals	erse polarity in
Periodical	:	Izv. AN SSSR, Ser. geofiz. 4, 320-330, Jul/Aug 1954	
Abstract		Experimentally demonstrate that the demagnetizing field tively magnetized ferromagnetic specimen is always less magnitude than that strength of the external field that magnetization. Ferromagnetic specimens that have exper magnetization can acquire a demagnetizing field greater magnitude than the external magnetic field. These condo one to explain the appearance of residual magnetization polarity in certain minerals sometimes observed under m Thank I. F. Paukov, senior laboratory assistant, for hi	s in absolute t caused this rienced thermo- r in absolute clusions enable n of reverse matural conditions.
Institution	:	Geophysics Institute, Acad Sci USSR	
Submitted	:	August 18, 1953	
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bst Journal:	Referat Zhur - Fizika, No 12, 1956, 36398					
Author:	Grabovskiy, M. A., Petrova, G. N., Isakova, L. I.					
Institution:	None	۰.				
Title:	On the Occurrence of Thermal Residual Magnetization of Mountain Rocks	· · · ·				
Original Periodical:	Izv. AN SSSR, ser. geofiz., 1956, No 1, 56-60	- -				
Abstract:	A description of an experimental investigation of thermal magnetization of ferromagnetic mountain rocks and the conditions for the occurrence of residual magnetization I_r at all the stages of the cooling of the rock. Magnetometric methods are used to measure the magnetic properties of specimens of magnetite in the Ural, Kursk, and Angaro-Ilimsk deposits, and of pyrrotine and nickel. For all the specimens, curves of the thermal magnetization I_{it} increases in a definite orienting field (on the order of the magnitude of the					
ard 1/2						

USSR/Physics of the Earth - Electric and Magnetic Field of the Earth, 0-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36398

Abstract: earth's field and above) when t of the specimen drops from the Curie point (t_c) to the room temperature $(t = 20^{\circ})$. Investigation was made of the residual part of the thermal magnetization I_{rt} . It is shown, that I_{rt} occurs at values of t close to t_c . The development of the thermal-residual magnetization in weak fields occurs fundamentally as a result of irreversible magnetization processes. Particular attention is paid to the determination of the stability of I_{rt} and of its coercive force (thermal coercive force H_{ct}). Plots are given for the dependence of the H_{ct} and H_c on the magnetizing magnetic field. H_{ct} is greater than H_c for the same specimen, and in the region of weak fields it is much higher than the magnitude of the field that fauses a given thermal magnetization. In this manner, I_{rt} is magnetically stable. The high values of H_c and of H_{ct} for many mountain rocks helps them retain their magnetization for many geological periods and it is therefore of great significance to paleomagnetism. Bibliography, 10 titles.

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THE REPORT OF THE PARTY AND A DESCRIPTION OF THE PARTY OF

GRABOVSKIT. H.A.

的推翻

Determination of the vertical component of a magnetic field for a two-phase magnetic system after its thermal magnetization. Izv.AN SSSR.Ser.geofiz.no.2:157-164 F \$56. (MLRA 9:7)

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1.Akademiya nauk SSSE, Geofisicheskiy institut. (Prospecting--Geophysical methods)

APPROVED FOR RELEASE: 03/13/2001

GRADOVSKIY, M. Hr USSR/Physics of the Barth - Electric and Magnetic Field of the Earth, 0-4 Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36399 Author: Grabovskiy, M. A., Petrova, G. N. Institution: None Geophysics Inst, AS USSR Title: On the Stability of the Residual Magnetization of Mountain Rocks Original Periodical: Izv. AN SSSR, ser. geofiz., 1956, No 3, 290-296 Abstract: Results are given of an experimental investigation on thermalresidual magnetization and on thermal coercive force of specimens of magnetite, pyrrotine, and nickel. The different course of the relative change in the magnetization and of coercive force for normal magnetization and for thermal magnetization is established. It is shown that the mountain rocks have a high magnetic stability to thermal magnetization, which gives a definite physical foundation for development of paleomagnetic investigations. Card 1/1

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GRABOVSKIY, M.A.

PHASE I BOOK EXPLOITATION

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Akademiya nauk SSSR. Komitet po geodezii i geofizike

Mezhdunarodnaya assotsiatsiya geomagnetizma i aeronomii; tezisy dokladov na XI General'noy assambleye Mezhdunarodnogo geodezicheskogo i geofizicheskogo soyuza (The International Association of Geomagnetism and Aeronomy; Abstracts of the Reports at the XI General Assembly of the International Union of Geodesy and Geophyzics) Moscow, Izd-vo AN SSSR, 1957. 46 p. 1,500 copies printed.

- PURPOSE: This booklet is intended for dissemination of abstracts of papers presented by the Soviet members of the International Association of Geomagnetism and Aeronomy at the XI General Assembly of the International Union of Geodesy and Geophysics.
- COVERAGE: This booklet with full English translation following the Russian text presents abstracts of papers, mainly on magnetics, telluric currents and surprae, presented by Soviet contributors at the XI General Assembly of the International Union of Geodesy and Geophysics. It was published by the Mational Committee for Geodesy and Geophysics of the Academy of Sciences of the USSR.

Card 1/9

APPROVED FOR RELEASE: 03/13/2001

496 The International Association (Cost.) TABLE OF CONTENTS: Keleshnikov, A. G., Petrova, G. N., Grabovskiy, M. A. Results of an Investigation of Magnetic Properties of Rocks and Geological Bodies 5 laboratory investigations showed that ferromagnetic rocks are Recent nonunitormly magnetized. Remanent magnetian though distributed regularly, does not follow the direction of the magnetizing field. The article evaluates stability and temperature influence on thermo-magnetization. In discussing the magnetic anisotropy the authors consider this property as typical for metamorphic rocks. Krasovskiy, V. I. Investigations of Aurorae and Night Sky Glow in the USSR. 11 The report contains latest data on radiation in the upper atmosphere. Hydroxyl radiation of night sky glow, twilight radiation of sodium and hydrogen emission in the maximum intensity zone of aurorae are discussed. Cerd 2/9 三方河门 音 物能 计图题 Section 1

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Krasovskiy, V. I. The Mature of Radiation in the Upper Atmosphere.	13
Radiation at 100 km from the surface of the earth is connected with the sociation and formation of molecules. Variations of intensity of radiate connected with temperature and pressure fluctuations in the upper Primary and secondary radiation of surface and their nature are discussed at the secondary radiation can originate as a result of recombination process tion of an electric field, and chemical reactions of primary ions and products.	Lation atmosphere. ssed. ses, forme-
Shklovakiy, I. S. Klementary Processes in the Upper Atmosphere as Ev. by Radiation.	idenced 15
In addition to common fluorescence originating in the selective absor- ultraviolet solar radiation by atoms in the atmosphere with subsequen radiation of "softer" quanta, processes of resonance fluorescence tak the upper atmosphere. With the detection of some lines in a twilight estimate can be made of the number of Lyman quanta in short wave radia the Sun.	t re- e place in spectrum an
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Troitskaya, V. A. Short-Period Oscillations of the Earth's Electro- magnetic Field.	18
Simultaneous studies of telluric currents and magnetic records facilitat study of short-period oscillations. Experiments, installations for reco telluric currents, and the basic principles of a proposed classification for types of oscillations are discussed. The causal genetic relationshi between various types of oscillations and the most favorable relative pe of the earth and the sum in exciting such oscillations were formulated.	siving n system lp
Driatskiy, V. M. Ionosphere Hear the Polar Region	য
Observations made from May 15, 1954 to April 14, 1955 on the drifting at SP-3 include vertical sounding of the atmosphere on a sliding frequency. During the period of minimum solar activity, the number of sun spots in working period was 8.3. The vertical component of the earth's magnetic changed from 56,612 χ to 3,919 χ . The geomagnetic disturbance was much than in polar observatories further south. The behavior of some ionos layers is nearly the same as in moderate latitudes and shows the same di the elevation of the sun. Ionization of various layers is pronounced an magneto-ionic splitting was observed rather frequently. Card 4/9	the field smaller pheric ependence on
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1995日通过1995年2月2月1日1月1日1月1日1月1日,因为5月1日,因为5月19月19日(1995)3月19月19日(1995)3月19月19日(1995)3月19日)		医筋筋
The International Association (Cont.) 496		
Kalinin, Yu. D. Forecasting Secular Geomegnetic Variations	25	
Variation in annual values of geomagnetic elements is the summary effect of changes in the geomagnetic field caused by internal agents (δf) and by geomagnetic activity ($\delta f \alpha$). The latter could be completely eliminated by taking average values for 10-11 year cycles. The morphological examination of such factors leads to the establishment of space-time relationships. The effects of internal forces in Eurasia are of a smooth, quasi-periodic character lasting a few decades and the geomagnetic activity follows an eleven year cycle. This makes it possible to forecast average values for a five year period with sufficient accuracy and to construct magnetic charts for the nearest epoch.		
Nikol'skiy, A. N. Disbrightion of Magnetic Disturbances in the Arctic Region Near the Pole	30	
Irregular changes in the magnetic field are the main indication of disturbances in the high latitudes. The form and amplitude of the daily rate of disturbances are determined by the effect of the earth's permanent magnetic field on the incoming jets of solar particles. The diurnal variations in high latitudes are		
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The International Association (Cont.) 496 very complex. Observations near the pole suggest the existence of a second zone of increased intensity and frequency of magnetic distrubances close to 80° geomagnetic latitude. This is well in accord with the studies of suroral and icnospheric disturbances and fits the theoretical findings of Alfven. Ben'kova, N. P. Klectric Current in Magnetic Storms 33 The regular components of world magnetic and polar storms were studied in world-1 wide observations from 1932-1933. The potentials of these fields were computed and a system of polar storm currents was reconstructed. An increase in conductivity with depth was determined and a break in it established at 900-1200 km, where Gutenberg and Repetti discovered a discontinuity for P-waves. Veller, A. Ye. Hydrogen Radiation in the Auroral Spectrum 36 An investigation of hydrogen radiation in the auroral spectrum was conducted at 64° of geomagnetic latitude and in the neighbouring regions. The data obtained concerns the bright beam flash and the afterglow phases. Prolonged exposure spectograms (1-2 hours) in the region of 6,400-6,600Å bear intense bands of the first positive system of N2; there are no evident signs of H d on the photographs or microphotographs, yet in all seven spectra the presence of H & lines could be confirmed. Hydrogen radiation is regularly observed in the after-glow spectrum following a normally developing aurora. Card 6/9

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Ivanov, M. M. Magnetic Surveys at Sea in the Non-Magnetic Ship "Zarya".

Lack of magnetic observations on the oceans after 1929 makes the study of variations of the earth's magnetic field and the secular changes largely conjectural. Older observations made by the ships "Galileo" and "Carnegie", based on a 100 mile grid, do not reflect regional magnetic anomalies related to the structure or relief of the sea bottom. A proposal has been made for another survey to be conducted by a laboratory ship. The specially built ship "Zerya" with a 600 t. displacement was supplied with everything necessary for a month's voyage. The personnel consisted of 34 persons of which 9 were research workers. The instruments used for measuring magnetic phenomena are: for measuring declination, a 127 mm optical goniometric compass and a range finding compass for continuous recording and measurement of differences between the gyro-course and the magnetic course for the horizontal component, two double magnetic compasses; for measuring H and Z, a two-component magnetodynamic magnetometer and a "Zarya" already magnetodynamic T magnetometer with a self orientating indicator. conducted some experimental work in the Baltic and the North Sea, discovering a considerable number of anomalies. In the future it will make some observations in several regions of the supposed maximum secular movement of magnetic elements.

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Petukhov, V. A. Solar Neutron Emission as Sources of Magnetic Disturbances and Aurorae	43
The author discusses the neutron theory explaining the relationship between solar activity and processes occurring on earth, the possible physical processes leading to the formation of a large number of meutrons and the experimental findings in this field, and the determination of velocities of salar particles by time intervals between phenomena occurring on the sun and on Warth.	
Bukhnikkashvili, A. V. and Kebuladze, V. V. The Nature of Regional Telluri Currents and Their Relation to Geology	1c 44
Telluric currents have interested scientists for a long time but the lack of systematic studies and the irregular distribution of stations prevents definite conclusions. Statistical examination of around-the-clock observati at the Dusheti station (Caucasus), led the authors to the opinion that the potential difference in a telluric field can be divided into the constant ar the variable components. The latter depend on the fun's diurnal, seasonal, annual and secular variations as well as the time of occurrence of extremes of these variations. At the same time, the meteorological factors and the t	Lons nd
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The International Association (Cont.)

of electrode grounding play an important part in the creation of a potential. The review analyzes telluric storms and distrubances, their rates, frequencies and amplitudes. Parallelism of the horizontal component of the magnetic and the latitudinal component of the telluric fields is fully established. The application of such currents to the study of geological structures in Georgia seems to be particularly successful in determing the depth of the crystalline basement.

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AUTHORS: Grabovskiy, M. A., and Yegorov, V. S. TITLE: Some Campage Experimental Demonstrations for the General Course in Physics (Neskoliko demonstratsionnykh opytov po obshchemu kursu fiziki). PERIODICAL: Uzpekhi Fizicheskikh Nauk, 1957, Vol. 63, Nr 4, pp. 813-818 (USSR). ABSTRACT: A device for the demonstration of the motion of the center of mass of a system "Falling Board". This device consists of a board in oblique position. One of the ends of this board is held firmly by means of an electromagnet, while the other end slides, nearly without friction, by means of balls on a slideway. For the deter= mination of the path of the center of mass two brushes are fastened on the system, which are in slight touch with a vertical sheet of paper. One of the brushes is fastened to the center of mass of the system, the other somewhat higher. After switching off the electro magnet the brush located in the center of mass will draw a straight line, and the brush located somewhat higher will draw a curved line (with the curvature directed towards the center of mass). Following this, a weight is fastened to the upper end of the board. The upper brush is now in the center of mass. When the experiment was repea-

ted it was found that the upper brush draws a straight line, whereas now the lower brush draws a curved line the curvature of which is

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directed towards the center of mass. The authors give some practical directions as to the construction of this device. 2. The resonance of a motor suspended on a spring? In the case of resonance motors are able to loosen their fundament. These and similar phenomena can be demonstrated as follows: A small motor is fastened on a cylindri= cal spring on a massive stand. On the axis of the motor a small rod is asymmetrically fastened, which causes percussions of the frequency of the motor. The first resonance at ~ 85 rotations per minute manifests itself by a periodical lifting and lowering of the motor. The resonance frequency of the spring depends on the elasticity coefficient of the spring and on the mass of the motor. In the case of the second resonance, at about 170 rotations per minute, the motor oscillated round a vertical axis. With an increase of the number of rotations new frequencies occur. With the highest frequency standing oscillations occur on the cylindrical spring, but the motor remains in its position. In large lecture halls it is advisable to project the shadow of the motor on to a screen. 3. The pheno= menon of acoustic resonance on Helmholtz resonators: Four Helmholtz resonators of different size are arranged in such a manner that the holes are on the same level. In front of these holes four similar paper turn-wheels are fastened. In front of the large openings of the resonators a loudspeaker connected with a sound source is monn=

Card 1/4

Card 2/4

ted. The turn-wheels which happen to be before the excited resona= tor then rotate. The dimensions of the apparatus are given. 4. A small ball in a gas- or liquid jet: A glass tube, one half of which has a cross section that is about 16 times as great as that of the other, is connected by means of a rubber tube with a balloon which contains liquid carbon dioxide under high pressure. In the wider part there is a ball, the diameter of which is smaller by about 1 - 1,5 mm than the inner diameter of the wider part of the tube. The gas flows from the narrower into the wider part of the tube. Because of the decrease of pressure occurring on the wider part, it is possible to turn the tube with its wider part directed downwards without the ball falling out. 5. A "cut" ball: A tennis ball caused to rotate by an oblique impact is surrounded by rather complicated currents of air. Therefore, a "cut" ball may change its direction during flight and may thus deceive the other tennis partner. For the purpose of demonstrating this application of the Magnus effect a special device is here described: A direct current motor of 25 watt power is vertically fastened to a massive stand. On the motor axis a rubber tube is: fastened which is longer by 1 - 2 mm than the axis protruding from the motor. On to the end of the rubber tube a celluloid table-tennis ball is fastened.

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CARLEN REPORT

in Physics	A small disk is pressed on to this ball from above by means of two cylindrical springs. When the motor rotates the ball is taken along by the rubber tubes and rotates with good regularity with the fre= quency of the motor. The resting as well as the rotating tennis ball can be knocked out of its position by means of a spring. First, the ball is knocked out several times while the motor is not rotating, and in this case it practically always flies in the same direction. However, in the case of a rapidly rotating motor, it flies in ano= ther direction. There are lo figures.
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•	SOV/49-58-8-4/17
AUTHORS:	Grabovskiy, M.A. and Brodskaya, S.Yu.
TITIE:	Normal Magnetisation and Thermo-magnetisation of Anisotropic Rocks (Normal'noye namagnichivaniye i termo- namagnichivaniye anizotropnykh gornykh porod)
PERIODICAL:	Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, mr 8, pp 977 - 988 (USSR)
ABSTRACT:	The results are described of laboratory investigations of normal magnetisation and thermo-magnetisation of rocks possessing a pronounced magnetic anisotropy and also of investigations of the magnetic stability of such rocks for two types of mgnetisation. The measurements were effected magnetometrically on a vertical, astatic thermo- magnetometer with a sensitivity of 1.94×10^{-2} Gauss/mm. Magnetically-isotropic 10 x 10 x 100 mm specimens of thinly-layered iron-mica magnetite quartz from the Kursk magnetic anomaly were investigated. One series of specimens were cut parallel to the direction of layering, the other perpendicular to that direction. Prior to thermo-magnetisation, the intensity of magnetic saturation I was determined for all the specimens in a closed
Card1/6	circuit; I _s characterises the quantity of magnetite

SOV/49-58-8-4/17 . Normal Magnetisation and Thermo-magnetisation of Anisotropic Rocks in the specimen. For the magnetic investigations, the specimens were selected in such a way that the "longitudinal" and the "transverse" specimens had equal values ${\rm I_s}$. In cases in which this could not be accurately fulfilled, specimens were chosen with somewhat higher values of I_g. The specimen was placed into one of the coils of the thermo-magnetometer and, prior to heating, the normal magnetisation curve at room temperature and the curve of residual magnetisation I_r were measured and the magnetic stability of the residual magnetisation in various fields was evaluated. For evaluating the stability, the following three magnitudes were used: the coercive force $H_{c,ac}$, the dc field required for reducing the residual magnetisation to zero when recording H_c (the destroying field) and H'_c , ac which reduces the residual magnetisation to zero (the ac "demagnetising" field). The investigated specimen was heated in a furnace to a temperature 50 to 100 °C above the Curie point at which it was held for a certain time Card2/6

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SOV/49-58-8-4/17 . Normal Magnetisation and Thermo-magnetisation of Anisotropic Rocks

and then cooled to room temperature inside a certain magnetic field. The cooling was effected successively in orienting fields of the following 8 intensities: 0.5, 2, 5, 10, 15, 25, 50 and 100 Oe. During the process of cooling, the magnetisation of the specimen I_{\pm} was measured at intermediate temperatures whereby the last value of It was determined at room temperature. Then the orientating field was removed and at room temperature the thermo-residual magnetisation and the thermocoercive force were measured and, following that, the stability of the thermo-residual magnetisation of the specimens was evaluated. For eliminating relatively large changes in the magnetic properties of the investigated specimens caused by the heating, the average values of the normal magnetisation at room temperature prior to and after heating were taken. The magnetic characteristics relating to the specimens cut in the direction of the layers are denoted in the text and in the graphs by the index ||, whilst those relating to the transverse specimens are denoted by the index = . The measured results are reproduced in the graphs, Figures 1-14. It

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SOV/49-58-8-4/17

Normal Magnetisation and Thermo-magnetisation of Anisotropic Rocks

was found that if the layers of the disturbing, layered, ferromagnetic body are distributed in the direction perpendicular to the vector of the total magnetic field, then (due to the large de-magnetisation factor) the body will hardly be magnetised at all in the direction of the field; the vector of the inductive and the residual magnetisation will be very small. The magnetic anomaly will manifest itself very little, in spite of the high percentage of magnetite content of the rock. If the same body (or a similar body with an equal content of magnetite) is located in the direction of the vector of the total magnetic field, the inductive and residual magnetisation will increase considerably, which will bring about an increase in the intensity of the magnetic anomaly. This is the picture of the process of magnetisation of an anisotropic, layered rock if the formation of the ferromagnetic rock takes place without the effect of temperature. If it is assumed that the rock formation takes place under conditions of thermo-magnetisation, the decrease of the temperature from the Curie point to the temperature at which the body is at present will cause an intensive

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SOV/49-58-8-4/17 Normal Magnetisation and Thermo-magnetisation of Anisotropic Rocks

> increase in the magnetisation both parallel and transverse to the layering, as an be seen from the described experimental results. Consequently, in this case, the residual magnetisation will manifest itself also in the direction purpendicular to the layering if the layers were in the direction transverse to the magnetising field during a relatively intensive magnetisation in the longi-Therefore, it can be tudinal direction of the layers. assumed that the total magnetisation of the rock will be in an oblique direction, in which case it is to be anticipated that the disturbing body will form a more complex magnetic field. The magnetic stability of the rocks cannot be expressed by a single parameter but by several, each of which is linked with the geological conditions of formation of the residual magnetisation. Thermo-magnetisation of anisotropic rocks brings about a considerable increase in the menetic values. This increase of the magnetisation in the transverse direction of the ferromagnetic layers during thermo-magnetisation can be so intensive that it can exceed the residual magnetisation of the anisotropic rock along the layers

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· · · · · · · · · · · · · · · · · · ·	SOV/49-58-8-4/17 sation and Thermo-magnetisation of Anisotropic Rocks
Normal Magneti	sation and Thermo-magnetisation of Anisotropic house
relati ation the ma There	ed by isothermal magnetisation. This brings about a vely complex distribution of the residual magnetis- in the anisotropic rock and, consequently, complicates gnetic field above the disturbing body. are 14 figures and 12 references, 1 of which is h and 11 Soviet.
ASSOCIATION:	Akademiya nauk SSSR Institut fiziki Zemli (Ac.Sc.USSR,Institute of Terrestrial Physics)
SUBMITTED:	May 28, 1957
Card6/6	1. RockMagnetic properties
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BOY/47-59-3-41/53

22(1)

AUTHOR: Grabovskiy M.A.

TITLE: Comment on the Froblem of the "Dead Loop"

PERIODICAL: Fizika v shkole, 1959, Mr 3, pp 93-95 (USSR)

ABSTRACT: The author proposes a new method to approach the problem of the "dead loop" in physics lessons. Nearly all physics workbooks contain the following problem: from which height must a carriage roll down an inclined plane so that it will describe the "dead loop" without falling from the highest point? Often the problem is solved by explaining the phenomenon as due to centrifugal force. The author, however, takes another approach which can be summarized as follows: the movement of an object along the "dead loop" can be considered as the movement of a body flung with initial speed at an angle against the horizon, but complicated by the uninterrupted action

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Comment on the Problem of the "Dead Loop"

of the deformed rails on it, i.e. as the case of a body moving along an assigned way. The author neg-lects friction. For experiments, therefore, he recommends the assembling of special carriages, the mass of which is mainly concentrated in the body, whereas the mass of the wheels can be neglected. There are 5 diagrams.

ASSOCIATION: MGU, Moskva (EGU, Moscow)

Card 2/2

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	S/049/60/000/03/016/019		
AUTHORS :	Brodskaya, S.Yu. and Grabovskiy. N.A.		
TITLE:	One of the Causes of Discrepancy Between the Vector of Remanent Magnetization of Rocks and the Direction of the Magnetizing Field		
PERIODICAL:	Isvestiya Akademii nauk SSSR, Seriya geofisicheskaya, 1960, Nr 3, pp 490-494 (USSR)		
ABSTRACT :	The authors were investigating the direction of present or past magnetizing field H in relation to the remanent magnetization I_m in rocks. Their method of investigation is illustrated in Figs 1, 2 and 3. They found that the vector of remanent magnetizes in the anisotropic rocks always differed from that of the magnetizing field. In the case where the present magnetizing field was found to be perpendicular to the rock stratification, the vectors of remanent magnetization of rock samples were parallel to the rock stratification, although they might be in two opposite directions		
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One of th of Rocks	S/G Bland the Direction of the Magnetizing Field	049/60/000/03/016/019 51/E691 Magnetisation
	(Fig 4). It was found that the discrepancy between vectors H and I _n in the anisotropic rocks could also magnetization in low temperatures. Acknowledgments a to M.N. Yelkin for his assistance. There are 4 figurand 17 references, 10 of which are Soviet, 5 English a	occur during
ASSOCIATION	Abademiya nauk SSSR, institut fisiki semli (Academy of Institute of Physics of the Earth)	Sciences USSR,
SUEMITTED:	July 22, 1959	
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		1.1
AUTHORS:	Grabovskiy, M. A. and Yegorov, V. S.	4
TITLE:	Some Experiments on the Topic "Rotational Motion"	
PERIODICAL:	Uspekhi fizicheskikh nauk, 1960, Vol. 71, No. 4, pp. 677-68	Ó
classes of dem The first devi is perpendicul longitudinal a 1.1 m high, an spirals form r uppermost part such a way tha the speed of t which are now	hors describe some demonstration experiments for physics onstrating some rules governing the rotational motion. ce which is described is a cylindrical double spiral which arly fitted onto a stand and which can rotate about its exis. The instrument shown in Fig. 1 (photograph) is d the distance between the two windings is 55 mm. The two rails on which a metal or wooden sphere may roll. The which is called the "accelerating part" is designed in at the sphere is supported by the lower rail; as soon as the sphere is high enough it rolls downward on the rails tying on the walk of the cylinder ("perpendicular part of (see Fig. 2). With this device a demonstration of the e sphere on the perpendicular winding with braked rotation	
Card 1/2		
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GRABOVSKIY, M.A.; ZHERDENKO, O.N.; SKOBORODKIN, Yu.P.

Possible use of magnetic powder in studying the composition of iron ores. Isv.AN SSSR.Ser.geofis. no.7: 970-973 J1 '60. (MIRA 13:7)

1. Akademiya nauk SSSR, Institut fiziki Zemli. (Iron ores--Magnetic properties) (Ores--Sampling and estimation)

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TITLE:

S/053/60/071/03/05/008 B006/B063

AUTHORS 8

The Lecture Rooms and the Demonstration Rooms for Physics of Moscow State University

PERIODICAL: Uspekhi fizicheskikh nauk, 1960, Vol. 71, No. 3, pp. 515-524

Grabovskiy, M. A., Malinin, M. V., Usagin, S. I.

TEXT: The article gives a description of the lecture rooms and the demonstration rooms in the new building of the fizicheskiy fakul'tet MGU (Department of Physics of <u>Moscow State University</u>) and briefly deals with the teaching and research program. The new building stands on the Lenin

Hills and covers an area of $28,000 \text{ m}^2$. Its front has a length of 228 m. On the sides of the main entrance there are two statues representing the famous Russian physicists A. G. Stoletov and P. N. Lebedev. Besides numerous laboratories, rooms for practical work, and a library, the building has three large physical lecture rooms and demonstration rooms. Elevation and ground plan of these rooms are shown in Figs. 1 and 2. The central auditorium is 21.6 m long, 18 m wide, and 11.4 m high. The two

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The Lecture Rooms and the Demonstration Rooms for Physics of Moscow State University S/053/60/071/03/05/008 B006/B063

side walls have six windows each, with a total area of 83 m². The equipment of the rooms is described in detail. Fig. 3 shows the two desks, the blackboard, and the projection screen. The doors open into the demonstration rooms. The central auditorium has 530 seats, and the two side rooms (north and south) 300 each. A partial view of one of the demonstration rooms is shown in Fig. 4. The apparatus and objects for demonstration were collected and arranged by N. A. Lyubimov, A. G. Stoletov, N. A. Umov, I. F. Usagin, S. I. Vavilov, G. S. Landsberg, V. G.Tikhonov, M. V. Kolbanov, A. B. Mlodzeyevskiy et al. At present, the demonstration rooms have 1795 instruments. The building also contains a workshop covering 30 m². The final part of the present paper is devoted to problems of organization, teaching, and teaching methods at the demonstration rooms which are administered by the kafedra obshchey fiziki (Chair of General Physics). The curriculum includes courses, lectures, and practical training. The following persons are mentioned in this connection: A. B. Mlodzeyevskiy (deceased), M. A. Grabovskiy, S. I. Usagin, Professors K. P. Yakovlev, K. F. Teodorchik, S. E. Khaykin, S. G. Kalashnikov, V. I. Iveronova, S. P. Strelkov, R. V. Telesnin, I. K. Kikoin, and I. A. Yakovlev. There are 4 figures. /

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GRABOVSKIY, M.A.; ZHERDENKO, O.N.; SKOVORODKIN, Yu.P. c Possibility of the use of magnetic powders in the investigation of pyrrhotite ores. Izv.AN SSSR.Ser.geofiz. no.5:737-743 My '61. (MIRA 14:4) 1. 1. Akademiya nauk SSSR, Institut fiziki Zemli. (Pyrrhotite--Magnetic properties) (Mineralogy, Determinative)

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BRODSKAYA, S.Yu.; GRABOWSKIY, M.A.

Study of magnetization processes in one-component and two-component ferromagnetic systems. Izv. AN SSSR. Ser. geofiz. no.8:1158-1170 Ag '61. (MIRA 14:7)

1. Akademiya nauk SSSR, Institut fiziki Zemli. (Ferromagnetism)

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BRODSKAYA, S.Yu.; GRABOVSKIY, M.A.

Magnetic stability of single-component and two-component artificial systems. Izv. AN SSSR. Ser. geofiz. no.1:54-66 Ja '62. (MIRA 15:2)

1. AN SSSR, Institut fiziki Zemli. (Rocks Magnetic properties)

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GRABOVSKIY, M.A.; ZHERDENKO, O.N.

Using the magnetic pattern method for studying ore minerals. Geol.rud.mestorogh. 5 no.1:99-104 Ja-F '63. (MIRA 16:3)

1. Muzey zemlevedeniya Moskovskogo gosudarstvennogo universiteta i kafedra obshchey fiziki fizicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta. (Mineralogy, Determinative)

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IVERONOVA, V.I., prof., red.; <u>CRAEOVSKIV</u>, M.A., dots., red.; KONONKOV, A.F., kand. fiz.-mate. nauk, red.; MALOV, N.N., prof., red.; TELESNIN, R.V., prof., red.; USAGIN, S.I., st. prepod., red.; YAKOVLEV, K.P., prof., red.; YAKOVLEV, I.A., prof., red.

> [Methodology and technique of lecture demonstrations in physics; transactions] Metodika i tekhnika lektsionnykh demonstratsii po fizike; sbornik trudov. Moskva, Izd-vo Mosk. univ., 1964. 280 p. (MIRA 17:5)

> 1. Mezhvuzovskaya konferentsiya po lektsionnym demonstratsiyam po kursu obshchey fiziki. 1st.

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GRABOVSKIY, M.A.; ZHERDENKO, O.N.

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Domain structure of the pyrrhotites of different genesis. Geol. rud. mestorozh. 6 no.3:90-97 My-Je '64 (MIRA 18:1)

1. Muzey zemlevedeniya Moskovskogo gosudarstvennogo universiteta i Kafedry obshchey fiziki fizicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta. ...

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GRABOVSKIY, N.A.; GREKU, R.Kh.; METAL'NIKOV, A.P. Some geomorphological characteristics of the bottom relief of the Atlantic Ocean along the 30th meridian from the Arctic Circle to the Tropic of Capricorn. Okeanologiia 1 no.5:&Co.865 '61. (MIRA 15:3) 1. Kalingradskoye otdeleniye Morskogo gidrofizicheskogo instituta AN SSSR. (Atlantic Ocean--Submarine topography)

APPROVED FOR RELEASE: 03/13/2001



Geomorphological characteristics of the bottom relief in the northeastern Atlantic. Okeanologiia 2 no.1:92-97 '62. (MIRA 15:2)

1. Kaliningradskoye otdeleniye Morskogo gidrofizicheskogo instituta. (Atlantic Ocean--Submarine topography)

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<u>L 28508-66</u> EWT(1) GW	
ACC NR: AP6014283 (N) SOURCE CODE: UR/0213/66/006/002/0285/0293	
AUTHOR: Grabovskiy, N. A. B	
ORG: Kaliningrad Department of the Institute of Oceanography, AN SSSR (Kaliningradskoye otdeleniye instituta okeanologii AN SSSR)	
TITLE: Bottom geomorphology in the region of the Newfoundland Grand Banks	
SOURCE: Okeanologiya, v. 6, no. 2, 1966, 285-293	
TOPIC TAGS: deean floor topography, geomorphology, geophysics, research ship, ocean current ABSTRACT: A geomorphic description is given of the relief of the Atlantic floor in the Newfoundland region, as shown on maps prepared by the author. These are based on a new bathymetric map of the nortwest Atlantic prepared by a group from the Kaliningrad Department of the Institute of Oceanography, AN SSSR from data of marine navigation maps, domestic and foreign (1848-1962), and also from recent data of expeditionary ships. "Geologic structure is interpreted on the basis of geo- physical studies, but the geomorphology also strongly reflects these structures. The main divisions are the underwater margin of the continent (to 200 m), the tran- sitional zone (200-4500 m), and the ocean platform (4500-5000 m and deeper). In the marginal zone, the relief-producing agents are wave action, tidal currents, and bottom currents. The transitional zone ranges from 75 km in width at the south	

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GRABOVSKIY, P.M.

Serological diagnosis of acute dysentery by means of a fluorescent antibody method. Zhur.mikrobiol.epid.i immun. 32 no.2:3-6 F '61. (MIRA 14:6) 1. Is kafedry mikrobiologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. (DYSENTERY)

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CRABOVSKIY, P.M. Specificity and sensitivity of the indirect fluorescent antibody method. Trudy LSGMI 66:120.123 '62. Use of fluorescent sera in the diagnosis of acute dysentery. Ibid.:124-129 Study of parastrains of intestinal microflora by the indirect fluorescent antibody method. Ibid.:130-134 (MIRA 17:4) Kafedra mikrobiologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. M.N.Fisher).

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516510006-7 GRABOVSKIY, P.P. (Kiyev) Some characteristics of health statistics in the People's Republic of Bulgaria. Sovi zdrav. 20 no.11:94-96 '61. (MiRA 14:12) 1. Iz Otdela organizatsii zdravookhraneniya Ukrainskogo nauchnoiseledovatel'skego instituta kommunal'noy gigiyeny. (BULGARIA_PUBLIC HEALTH_STATISTICS)

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Validity of selection in the processing of data on disease incidence. Gig. i san. 26 no.8:93-96 Ag '61. (MIRA 15:4) (DISEASES--REPORTING)

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GRABOVSKIY, P.P. (Kiyev)

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New data on the method of studying population morbidity; materials of the Fourth Session of the Semashko Institute of Public Health Organization and Medical History. Vrach. delo 4:126-127 Ap '62. (MIRA 15:5)

(MEDICAL STATISTICS)

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GRABOVSKIY, 5.1. 5 D 2 4 4 7 1 Meteorological Abst. 4.2-185 Grabovskii, R. I., Mirovoi okean kak istochnik atmos-Vol. 4 No. 2 fernykh iader kondensatsii. [The world ocean as a source Feb. 1953 of condensation nuclei. Akademiia Nauk SSSR, Izvestiia, Aqueous Vapor and Ser. Geofizicheskaia, 2:56-74, 1952. 2 figs., 5 tables; Hydrometeors 36 eqs. DLC -- The various hypotheses concerned with the origin of atmospheric condensation nuclei namely the continental, cosmic and marine hypotheses are discussed critically. A thorough analysis is made of the marine hypothesis which attributes the origin of atmospheric condensation nuclei to the action of wind upon the sea surface and the resulting spray formation. An approximate calculation of the annual ammount of salt entering the atmosphere from the sea surface is made and the quantity of chlorides removed from the atmosphere in the form of condensation nuclei of precipitation is estimated. Conclusive evidence is presented indicating that spray from sea water plays a fundamental role in the salt balance of the earth and is the source of condensation nuclei. Subject Headings: 1. Condensation Watustion 8-77867, 11Aug 54 nuclei 2. Sea spray 3. Chloride content of air .-- I. L. D. Zhdanou State Lingral

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GRAEOVSKIY, R. I., KONDRAT'YEV, K. Ya., and SELEZMEVA, Ye. S. "Pavel Nikolayevich Tverskoy," Meteorol. i gidrologiya, No l, 1953, pp 59-60 On the occasion of the 60th birthday of the well known Soviet meteorologist and geophysicist, Frof. P. N. Tverskoy, Doctor of Physicomathematical Sciences and head of the Chair of the Physics of the Atmosphere in Leningrad University. (NZhGeol, No 5, 1954) S0: Sum. No 568, 6 Jul 55

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GRABOVSKIY, Roatisley Ivanovich; TVERSKOY, P.N., redaktor; VIASOVA, Yu.V., redaktor; FIAUM, M.Ya., tekhnicheskiy redaktor [Condensation nuclei in the atmosphere] Atmosfernye iadra dondensatsii. Pod red. P.N.Tverskogo. Leningrad, Gidrometeorologicheskoe izd-vo, 1956. 163 p. (HIRA 10:1) (Atmospheric nucleation)

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CRAEOVSKIY, Rostialav Ivanovich; IVANOV, I.A., red. [Physics course for agricultural institutes] Kurs fiziki dlia sel'skokhoziaistvennykh institutov. Moskva, Vysshaia shkola, 1963. 525 p. (MIRA 17:6)

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ALEXSETEV, A.A., inzhener, redaktor; ASHKENAZI, K.M., doktor tekhnicheskikh nauk, redaktor; GRABOVSKIY, V.A., kandidat tekhnicheskikh nauk, redaktor; GORBACHEV, A.H., Kandidat tekhnicheskikh nauk, redaktor; IVANOV, S.N., kandidat tekhnicheskikh nauk, redaktor; LAPIN, P.S., kandidat tekhnicheskikh nauk, redaktor; NEPENIN, N.N., doktor tekhnicheskikh nauk, redaktor; PUZYREV, S.A., kandidat tekhnicheskikh nauk, redaktor; RIUKHIN, N.V., kandidat tekhnicheskikh nauk, redaktor; RIUKHIN, N.V., kandidat tekhnicheskikh nauk, redaktor; FLYATE, D.M., kandidat tekhnicheskikh nauk, redaktor; SHAPIRO, A.D., kandidat tekhnicheskikh nauk, redaktor; ELIASHBERG, M.G., kandidat tekhnicheskikh nauk, redaktor; KHUDYAKOVA, A.V., redaktor; VOLKHOVER, R.S., tekhnicheskiy redaktor.

[Paper maker's handbook] Spravochnik bumashnika (tekhnologa) Moskva, Goslesbumisdat. Vol. 1 1955. 790 p. (MLRA 8:10) (Paper industry)

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RABOVSKIY, V.A. MYNV, A.A., inzhener, redaktor; ASHKENAZI, K.M., doktor tekhnicheskikh nsuk, redaktor: GRABOVSKIY, V.A., kandidat tekhnicheskikh nauk, redaktor; GOHBACHEV, A.N., kandidat tekhnicheskikh nauk, redaktor; IVANOV, S.N., kandidat tekhnicheskikh nauk, redaktor; LARIN, P.S., kandidat tekhnicheskikh nauk, redaktor; NEPENIN, N.N., doktor tekhnicheskikh nauk, redaktor; FUZYREV, S.A., kandidat teknnicheskikh nauk, redaktor: RYUKHIN, N.V., kandidat tekhnicheskikh nauk, redaktor; FLYATE, D.M., kandidat tekhnicheskikh nauk, redaktor; SHAPIRO, A.D., kandidat tekhnicheskikh nauk, redaktor; ELIASHBURG, M.G., kandidat tekhnicheskikh nauk, redaktor; KHUDYAKOVA, A.V., redaktor izdatel*stva; KARASIK, N.P., tekhnicheskiy redaktor [Paper maker's handbook] Spravochnik bumashnika (tekhnologa). Moskva, Goslesbumizdat, Vol.2., book 1. 1956. 458 p. (MLRA 10:2) 1. Leningrad TSentral'nyy nauchno-issledovatel'skiy institut tsellyulosnoy i busashnoy promyshlennosti (Paper industry)

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CRABOUSKIY, V.A.

ALEKSEYEV, A.A., inzhener, redaktor: ASHKENAZI, K.M., doktor tekhnicheskikh nauk, redaktor; GRABOVSKIV, V.A., kandidat tekhnicheskikh nauk, redaktor; GORBACHEV, A.N., Kandidat teknnicheskikh nauk, redaktor; IVANOV, S.N., kandidat tekhnicheskikh nauk, redaktor; LARIN, P.S., kandidat tekhnicheskikh nauk, redaktor: NEPENIN, N.N., doktor tekhnicheskikh nauk, redaktor; PUZYREV, S.A., kandidat tekhnicheskikh nauk, redaktor; RYUKHIN, N.V., kandidat tekhnicheskikh nauk, redaktor; FLYATH, D.M., kandidat tekhnicheskikh nauk, redaktor; SHAPIRO, A D., kandidat tekhnicheskikh nauk, redaktor; ELIASHEERG, M.G., kandidat tekhnicheskikh nauk, redaktor; PUZYREV, S.A., redaktor; PYUKHIN, N.V., redaktor; KHUDYAKOVA, A.V., redaktor izdatel'stva; KARASIK, N.P.tekhnicheskiy redaktor [Paper maker's manual] Spravochnik bumazhnika; tekhnologa. Moskva, Goslesbumizdat. Vol. 2, book 2. 1957. 433 p. (MLRA 10:4) 1 Leningrad. TSentral'nyy nauchno-issledovatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti. (Paper industry) มหาศักรณ์จากนี้ เหตุลาย เหตุลาย เกิดจากนี้ เกิดจากนี้ เกิดจาก เกิดจาก เกิดจาก เกิดจาก เกิดจาก เกิดจาก เกิดจาก เ C PHATY &

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GEABOYSKIY, V.A., dots.; NAKESTNIKOV, I.V., inzh.; YAROTSKIY, B.E. Rapid washing of sulfate pulp in diffusers. Bum. prom. 33 no.4: 16-18 &p '58. (MIBA 11:4) 1. Leningradskiy tekhnologicheskiy institut (for Grabovskiy, Namestnikov). 2. Svetogorskiy teellyulozno-bumazhnyy kombinat (for Yarotskiy). (Woodpulp) (Diffusers)

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GRABOVSKIT, V.A, dots.; NAMESTNIKOV, I.V., insh. Ffect of certain factors on the washing of sulfate pulp in diffuser tanks. Bus.prog. 34 no.6:2-4 Je '59. (MIRA 12:10) 1. Leningradskiy tekhnologicheskiy institut tsellyulosno-buseshnoy pro-yshlennosti. (Woodpulp)

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BARANOV, Nikolay Aleksandrovich; GORBOVSKIY, Boris Crigor'yevich; SOLTUS, N.G., retsenzent[deceased]; DENISOV, Yu.A., retsenzent; GRABOVSKIY, V.A., red.; PROTANSKAYA, I.V., red. izd-va; VOLOKHONSKAYA, L.V., red. izd-va; VDOVINA, V.M., tekhm. red.

 [Technology and automation of cellulose production] Tekhnologiia i avtomatizqtsiia tsellulosmogo proizvodstva. Moskva, Goelesbumizdat, 1961. 471 p. (MIRA 14:6)

 (Cellulose)
 (Automation)

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ALEKSEYEV, A.A., inzh., red.; ASHKENAZI, K.M., doktor tekhn.nauk, red.; GRABOVSKIY, V.A., kand.tekhn.nauk, red.; CORBACHEV, A.N., kand.tekhn. nauk, red.; IVANOV, S.N., kand.tekhn.nauk, red.; LARIN, P.S., kand. tekhn.nauk, red.; NEFENIN, N.N., doktor tekhn.nauk, red.; FUZNEV, S.A., kand.tekhn.nauk, red.; SHAPIRO, A.D., kand.tekhn.nauk, red.; ELIASHBERG, M.G., doktor tekhn.nauk, red.; KHUUYAKOVA, A.V., red.; ZLIASHBERG, M.G., doktor tekhn.nauk, red.; KHUUYAKOVA, A.V., red.; ZLIASHBERG, M.G., doktor tekhn.nauk, red.; KHUUYAKOVA, A.V., red.izd-va; SIDEL'NIKOVA, L.A., red.izd-va; LOBANKOVA, R.Ye., tekhn.red. [Manual for paper industry technicians] Spravochnik bumazhnika; (tekhnologa). Moskva, Goslesbumizdat. Vol.3. 1961. 719 p. (MIRA 14:6) 1. Leningrad. TSentral'nyy nauchno-issledovatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti. /(Paper products)

APPROVED FOR RELEASE: 03/13/2001

ALEKSEYEV, A.A., inzh., red.; V'YUKOV, I.Ye., kand. tekhn. nauk, red.; GRABOVSKIY, V.A., kand. tekhn. nauk, red.; ZHITKOV, A.V., Kand. tekhn. nauk, red.; NAUMOV, V.V., kand. ekon. nauk, red.; NEPENIN, Yu.N., kand. tekhn. nauk, red.; PUZYREV, S.A., kand. tekhn. nauk, red.; RYUKHIN, N.V., kand. tekhn. nauk, red.; SHAPIRO, A.D., kand. tekhn. nauk, red.; ELIASHBERG, M.G., doktor tekhn. nauk, red.

> [Handbook for the papermaker in three volumes] Spravochnik bumazhnika v trekh tomakh. Moskva, Izd-vo "Lesnaia promyshlennost'." Vol.1. Izd.2., perer. i dop. 1964. 840 p. (MIRA 17:8)

1. Moscov. Vsesoyuzryy nauchno-issledovatel'skiy institut tsellyulozno-bumazhnoy promyshlennosti.

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AUTHORS :	30-58-4-17/44 Grabovskiy, V. I., Professor; Kolesnikov, A. G., Professor; Ivanov, A. A., Doctor of Physical and Mathematical Sciences	
TITLE :	Research Done During the Expedition of the "Mikhail Lomonosov" (Ekspeditgionnyye issledovaniya na sudne "Mikhail Lomonosov") HydHophysics in the Atlantic (Gidrofizicheskiye raboty v Atlanticheskom okeane)	
PERIODICAL:	Vestnik Akademii Nauk SSSR, 1958, Vol. X Nr 4, pp.86-90(USSR)	
ABSTRACT:	The present investigations of oceans and seas show that their most essential processes are dependent on the thermal and dynamic interaction of the ocean and the atmosphere. There- fore the main interest is directed to the investigation of the heat exchange processes between atmosphere and ocean, to the distribution of heat in quantities of water as well as to the formation of streams and waves. Then the authors report in de- tail on the future research within the frame of the program of the International Geophysical Year. According to a decision of the committee for the execution of the works of the MGG	
Card 1/3	the investigations in the North Atlantic are to be carried out by the scientific research ships "Mikhail Lomonosov"	
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Research Done During the Expedition of the "Mikhail Lomonosov". Hydrophysics in the Atlantic

(Figure 1) , "Ekvator" and "Sevastopol". The "Mikhail Lomonosov" was built in the "Neptun" ship yards in Rostok (DDR), it has a displacement of 6000 t and can also be used for works in ice. Its deck was made longer and a landing place for helicopters was incomporated. The ship has special devices and equipment, among others a deep-sea hoist for anchoring down to 15000 m, 8 hydrologic hoists of the "Okean"--type down to 4000 m, 3 echosonic fathometer automatic recorders downth 2000 m, 1 echosonic fathometer of the "Lodar"--type for vertical and horizontal probing. Then a workshop for experiments and 16 laboratory rooms are installed aboard the ship. The average speed of the ship is 13 knots and it has an operating range of about 11000 miles. The maiden voyage was made for testing the equipment of the ship (Figure 2). But also a number of works of general kind were carried out. Also a group of German scientists under the direction of Doctor E. Bruns took part in this expedition. The second voyage is shown in Figure 3 and is supposed to include the collaboration of all three ships. The main oceanographic work of this voyage will be carried out according to the plan by the MGG, which is further detailed. The "Mikhail Lomonosov" started on this voyage which will last 4 months

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V.K. GRABOVSKIY HRABOVS'KYI, Volodymyr Klymentievych [Cooperation and mutual aid among all members of society are forms of the productive relations in socialism]Spivrobitnytstvo ta vzaiemodopomoha vsikh pratsivnykiv suspil'stva - forma vyrobnychykh vidnosyn sotsializmu. Kyiv, Vyd. Kyivs'koho univ., 1961. 60 p. (MIRA 16:4) (Communism)

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ACC NR: AP7012	411	SOURCE CODE	C: UR/0367/67/00	5/001/0123/0128
AUTHOR: Gareyev, Kalinkin, B. N.	, F. Λ Gareeν, Ι	'. Λ.; Grabovskiy	, Ya Grabows	d, Ya.;
ORG: Joint Insti issledovaniy)	ltute for Nuclear Re	search (Ob ⁿ yedin	ennyy institut ya	ide mykh
TITLE: Diffracti products	lon effect in the ar	ıgular distributi	on of transfer r	paction
SOURCE: Yadernay	ya fizika, v. 5, no.	1, 1967, 123-12	28	
TOPIC TACS: angu	ular distribution, r	uclear collision	L 	
ABSTRACT: The di reaction p ro ducts	iffraction effect in s has been treated. ons between nuclei f symmetry exists in f	Its relation to is established.) the parameters It is qualitativ	charac- 21y ex-
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