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the start of the second .V Gelikery Y.T., Caulines of Technical Sciences. Performance of the Calculation for Accuracy in the Machining of Baail-Machine Genry Card 1/5 Mahalafithin, Buda, Ectomers. Recent Devieysens is the Technology of Stating of Parts in Latrument Manufacture Ernaler, A.S., Egismer. Mathels of Calibrating Profilemeter Scales Larnywrho, Y. D., Defineer. Uwe of Ultrasonics in Instrumet Manufacture Gentumon Suley Conditate of Perindeal Sciences, F.J. Dilobor, Excluser, and K.A. Karretery, Brythere. Scrae Ways of Security incor Converging in the Memilterium of Dies for Cold Pressoriting in Entrument Memilterium Termolayers_P.D., Endineer. Cold Presenvorking of Metals in Small-Lot Production Generality, A.F., Devier of Technical Sciences, Professory, A.F., Durspore, Generatase of Technical Estonese, and J.A. Dohhary, Caudidase of Technical Science, Derrevaling the Advance of Machining on Asto-matic Lather and Videning Teals Field of Application Chernythery, A.Y., Engineer. Application of Fragmam Control in The France Weak Anterne Georgianstyr, L.A., Candita's of Tweinical Sciences. E Thusducers of Nerhanical Values and Their Application Orbier, M.A., Candidate of Technical Sciences. Conditions for Thrivelal The Stability of Magnetowlectric Instruments "Pichodiser, Fil,, Candidate of Technical Scinces. Estimating "BarNapiltals of Darkinab in Bamil-Module Spur Searing Used in Derro Systems Trainyr, Z.F., Cautians of Technical Sciences. Effect of Desting on Lie Priction Nemers of Ball Bearings Ceed in Gyrosozia Latremarks COTTRACT: The 20 articles deal with the present state and the outlook for the development of instrument meanheture and measurement behindpe. New problem of design, construction, and meanheture of instruments are distanted in the first two sections. Rephasis is given to problem or extension and mechanisation of production and be the application of new technique in program control, atten-sendse, and shipless vorting of metal. The virth section deals with new TRATORY This collection of articles is intended for selectlife and technical personnel to the instrument industry. M., A.F. Gerrilov, Dovor of Technical Sciences, Professor; Tech. E., A. Te. Thismory Managing E1. for Literature on Machine and Electromot Construction (Mashgis): M.Y. Polyresity, Ergineer. Priornetroyectys 1 Emeritaliacys tabbila (Instrument Manufacture and Measurement Technique) Moscow, Mealgin, 17%2 – eó2 g. Errete alip insernat. menurant meltat involving the new of altreaction and radio isologee. Some theoretical aspects of metrology and menurament sectorings are also its courses to the sectors. No personalities are menicord. References accounty second set the sectors eschno-tehhricheskrye obshohestvo priborostrzitel*noy prozyzhlennosti NAMES AND ADDRESS OF ADDRESS ADDRESS PEASE I BOOK KUPLOTTATION Electronic BOL/2391 3 ¥. g 8 3 - 18 5 ŝ Ę 8 Я :1 (\mathbf{f})

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KURNYCHEV, Yevgoniy Padorovich; SAAK'YAN, Yu.A., red.; EOROVINSKAYA, L.M., tekhn. red.

 [Hanual for young operators of grinding machines] ' ponoshch' rolodomu zatochniku. Rostov-na-Donu] Rostovskoe knizhnoe izi-vo, 1961. 130 p. (MIRA 15:3)

 (Grinding and polishing)

APPROVED FOR RELEASE: 06/19/2000

KURNYCHEV, Yevgeniy Fedorovich; THUNIN, H.P., dots., retsenzent; CAA''TAN, Yu.A., red.; FORGVINCKAYA, L.M., tekhn. red. [Handbook for the adjusters of machine tools] V pomoshch' nastroishchiku metallorezhushchikh stankov. Kostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1963. 122 p. (MIRA 16:10) (Machine tools)

APPROVED FOR RELEASE: 06/19/2000

KURNYSHOV V.M.

[Over-all mechanization of harvesting] Kompleksnaia mekhanizatsiia uborki. Kazan', Takhnigoizdat, 1955. 41 p. (MIRA 9:9) (Combines (Agricultural machinery))

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KURNYSHOV, V.M.

[Harvesting grain in separate stages] Bazdel'naia uborka zerovoch kul'tur. Kazan', Tatknigoizdat, 1956. 27 p. (NEEA 10:10) (Grain--Harvesting)

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KURNYSHOV, V.M.; SMIRHOVA, I.I., red.; KHUSHUTDINOV, Sh.S., tekhn.red.

[Bural efficiency promoters and inventors of the Tatar A.S.S.R.] Sel'skie ratsionelizatory i izobretateli Tatarskoi ASSR. Kazan', Tatarskoe knizhnoe izd-vo, 1960. 65 p. (MIRA 14:1) (Farm mechanisation)

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KURO, Kanamori, prof.

Reducing the sulfur content in cast iron during the blast furnace process. Metallurg 6 no. 1:6-7 Ja '61. (MIKA 14:1)

1. Institut promyshlennoy tekhnologii pri Tokiyskom universitete. (Blast furnaces) (Desulfuration)

APPROVED FOR RELEASE: 06/19/2000

A STATEMENT AND A ST

PAZIRUK, K.I., PRVZNER, G.M.; KUROCHITSKIY, Ch.K.

 Mewly designed machines and squipment for the starch industry.

 Trudy TSWIIKPP no.3:188-233 '59. (MIRA 13:9)

 (Starch industry--Equipment and supplies)

(Starch industry-Equipment and supplies)

 Comparison

જ સંસ્થાનિક પ્રતિ અને તેમ કોઈ છે. તેમ માટે જ સંસ્થાન

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KUROCHITSKIY, Ch.K.
              Evaluation of the effectiveness of hydrocyclone operations in
              starch manufacture. Sakh. prom. 33 no.11:64-67 M '59 (MIRA 13:3)
              1. TSentral'nyy nauchno-issledovatel'skiy institut krakhmalo-
              patochnoy promyshlennosti.
                       (Starch industry--Equipment and supplies)
                 NY LANARANANA MANANA MANANA MANJARANA MANJARANA MANJARANA MANJARANA MANJARANA MANJARANA MANJARANA MANJARANA MA
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KUROCHITSKIY, Ch.K.

Economic calculation of centrifugal separator stations in corn starch factories. Trudy TSNIIKPP nc.6:77-92 '62. (MIRA 16:12)

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I	Determining the operative eff SNIIKPP no.5:60-73 463.	iciency of hydrocycloned (MIRA)	s, Trudy 16:7)
	(Separators(Mach	inery)—Testing)	
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KUROCHITSKIY, Cheslav Kazimirovich; SHIFUNOVA, Ninel' Semenovna; SHAMBORANT, G.G., retsenzent; FUKS, V.K., red.

> [Hydrocyclones in the starch and molasses industry] Gidrotsiklony v krakhmalo patochnoi promyshlennosti. Moskva, Pishchevaia promyshlennost', 1964. 84 p. (MIRA 18:3)

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CIA-RDP86-00513R000927720018-5"

KUROCHKA, A.K., inzh.; BABIN, A.S., inzh.

Electric circuits for the VI23 electric locomotive with recuperation. Elek. i tepl. tiaga 3 no.3:29-31 Mr '59. (MIRA 12:5)

(Electric locomotives)

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GRIGOR'YEV, Ye.T., inzhener; KOCHURAYEV, L.D., inzhener; KUROCHKA, A.L. inzhener; SUSLOV, B.V., inzhener; TUSHKAHOV, B.A., inzhener; SHAPIRO, I.L., inzhener. Design features of the VI23 electric locomotive. Zhel.dor. transp. 37 no.3:16-22 Mr '56. (MIRA 9:5) (Electric locomotives) ł in the second CONTRACTOR AND DESCRIPTION OF A A DESCRIPTION OF A DESCRI 一次的建造 .:

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927720018-5

AUTHORS:	Kurochka, A.L., Engineer and Bolyayev, I.P., Candidate of Technical Sciences, Decent
TITIE:	Investigation of the Transient Regimes in the Braking Circuits of Electric Locomotives with Counter Excitation of the Exciters (Issledovaniye perekhodnykh rezhimov v skhemakh elektricheskogo tormozheniya elektrovozov s protivovozbuzhdeniyem vozbuditeley)
PERIODICAL	: Izvestiya Vysshikh Uchebnykh Zavedeniy, Elektromekhanika, pp 15 - 27 (USSR) اورن
ABSTRACT:	Of the various types of electronic computers, analogue computers are the most suitable for investigating the problem. In this paper, basic results and experience are described of applying electronic computers for cal- culating and investigating transient phenomena in recuperative braking of electric locomotives with counter-excitation of the exciter in the case of voltage fluctuations in the contact network and breaks in the current-consuming system. A circuit of recuperative braking of a 4-axle electric locomotive or of one section of an 8-axle electric locomotive is taken as an object
Cardl/6	of investigation, a schematic diagram of which is given
	n en de la company de la presentation de la company de La company de la company de La company de la company de

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고소는 것 같은 법정되다.

SOV/144-58-8-3/18 Investigation of the Transient Regimes in the Braking Circuits of Electric Locomotives with Counter Excitation of the Exciters in Figures 1 and 2. Analytical investigation of such circuits represents considerable difficulty, due to the fact that the braking current is a function of a number of variables. For solving the problem, the recuperative braking system is assumed as being an automatic-control system, by considering the voltage changes in the network as external disturbing effects and considering the braking current as being the controlled magnitude. It is assumed that the brushes of the motors are in the reutral position; the speed of the electric locomotive does not change during the transient period; the commutation is linear; the short-circuited section does not have any influence and that the characteristics of the motors are equal. On the basis of assumptions published earlier by one of the authors of this paper (Ref 3), the authors start off from equations for the e.m.f. of the exciter of the traction motors, the e.m.f. of the traction motors and of the recuperated current; these equations in operator form are Eqs (1) - (3), p 16. For verifying the Card2/6 correctness of the basic assumptions and for establishing

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SOV/144-58-8-3/18 Investigation of the Transient Regimes in the Braking Circuits of Electric Locomotives with Counter Excitation of the Exciters structural circuits and determination of their parameters, the authors compare the curve of the change in the recuperation current measured on an electric locomotive with that determined on an electric model for braking, under conditions enumerated in Table 1, p 17, in the case of a sharp decrease in the voltage of the supplier system; the graph, Figure 6, shows a comparison of the curve determined experimentally (Curve 1) with the calculated curve (Curve 2). A number of oscillograms are included which represent the obtained experimental results. The here described method of investigation of the transient processes in electric circuits enables rapid and exhaustive calculations and analysis of the non-steady state regimes and the stability of systems containing DC machines of any complexity during motor and generator regimes at various loads and speeds. The following conclusions are arrived at. 1) In electric braking systems with counter-excitation of the exciters, oscillations of the controlled magnitude (of the braking current) take Card3/6 place in the case of external disturbances, the main cause

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SOV/144-58-8-3/18 Investigation of the Transient Regimes in the Braking Circuits of Electric Locomotives with Counter Excitation of the Exciters of which is the mutual inductance e.m.f. induced in the

circuit of the independent excitation winding during sudden intensive changes of the current intensity in the counter compound winding. 2) The oscillations of the current intensity increase with increasing number of turns of the anti-compound winding, the time constant of the excitation winding of the traction motors and the exciter and the speed of the locomotive; elimination of stabilizing resistances from the circuit intensifies the oscillations but the work of the system remains stable. 3) The braking system with "cyclic stabilisation" of the external disturbing effects reacts similarly to a circuit without cyclic connection of the windings. Differences in the loads of the parallel branches of traction motors do not influence the stability of the system. 4) At locomotive speeds exceeding 50 to 55 km/h, for motors connected as shown in Figure 1 and for speeds of 90 to 95 km/h for motors connected according to the circuit, Figure 2, the stability reserve of the system decreases and measures have to be taken to reduce the

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SOV/144-58-8-3/18 Investigation of the Transient Regimes in the Braking Circuits of Electric Locomotives with Counter Excitation of the Exciters

> oscillations in the braking current. 5) Reduction of the time constant of the independent excitation winding of the exciter permits reducing considerably the oscillations in the braking current and compensation of the mutual inductance e.m.f. in this winding suppresses these oscillations completely. 6) For compensating the e.m.f. of the mutual inductance, it is recommended to introduce into the system a flexible, braking-current actuated, (negative) coupling between the armature circuit of the traction motors and the independent winding of the exciter, 7) The here described methods of analysis and investigation of electric-locomotive circuits are simple and fully applicable for calculating non-steady state regimes during the design and development of DC motor circuits as well as automatic-control circuits. There are 22 figures, 1 table and 5 Soviet references.

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	SOV/144-58-8-3/18
Investigation Electric Locom	of the Transient Regimes in the Braking Circuits of notives with Counter Excitation of the Exciters
ASSOCIATION:	Novocherkasskiy elektrovozostroitel'nyy zavod (Novocherkassk Electric Locomotive Works)(A.L.Kuronka) Kafedra elektricheskikh mashin i apparatov Novo- cherkasskogo politekhnicheskogo instituta (Chair of Electrical Machinery and Apparatus of the Novocherkassk Polytechnical Institute) (I.P. Bolyayer)
SUBMITTED:	July 20, 1953
Card 6/6	

CIA-RDP86-00513R000927720018-5

DOROFEYEV, Boris Grigor'yevich, starshiy prepodavatel': MEYEROVICH, Shmerko Samuylovich, kand.tekhn.nauk, dots.; STUKALKIN, Andrey Mikolayevich, inzh.; KUROCHKA, Aleksandr Leont'yevich, inzh.
Superimental investigation of the ventilation for the new-type starting resistors in electric loconotives. Isv.vys.ucheb.zav.; elektromekh. 1 no.11:107-111 '58. (MIRA 12:2)
1. Mafedra teoreticheskikh osnov teplotekhniki Novocherkasskogo politekhnicheskogo instituta (for Dorofeyev). 2. Zaveduyushchiy kafedroy teoreticheskikh osnov teplotekhniki Novocherkasskogo politekhnicheskogo instituta (for Meyerovich). 3. Novocherkasskiy elektrovozetroitel'nyy zavod (for Stukalkin, Kurachka). (Blectric locomotives--Equipment and supplies)

APPROVED FOR RELEASE: 06/19/2000

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KUROCHEA, A.L., inzh.; ALIKIN, R.I., inzh.; SUROVIKOV, A.A., inzh. (Novocherkasek) Using phase splitters for feeding auxiliary machinery of a.c. electric locomotives. Wiek. i tepl.tiaga 2 no.12:9-11 D '58. (NIRA 12:1) (Wiectric locomotives--Miectric equipment)

APPROVED FOR RELEASE: 06/19/2000

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• ,	SOV/144-58-8-8/18
AUTHORS:	Alikin, R.I. and Kurochka, A.L., Engineers
TITLE:	Experimental Investigation of Traction Motors Which Are Fed by Pulsating Voltages (Eksperimental'nyye issle- dovaniya tyagovykh elektrodvigateley pri pitanii ot pul'- siruyushchego napryazheniya)
PERIODICAL	: Izvestiya Vysshikh Uchebnykh Zavedeniy, Elektromekhanika, 1958, Nr 8, pp 69 - 73 (USSR)
ABSTRACT:	In Soviet-built electric locomotives the single-phase line current is rectified by means of full-wave rectifiers, using as rectifiers water-cooled single- anode ignitrons with sealed envelopes. The traction motors of these locomotives are series-excited DC motors. In spite of fitting special smoothing chokes, there are considerable pulsations in the rectified voltage. For instance, in the electric locomotives of the types NO and N-60, the basic pulsation wave (100 c.p.s.) under the rated conditions reaches a value of 30% and at high speeds and low current intensities, the pulsations are more intensive still. The current pulsations resulting from the pulsations in the input voltage bring
Cardl/4	about pulsations in the magnetic excitation flux,
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SOV/144-58-8-8/18 Experimental Investigation of Traction Motors Which Are Fed by Pulsating Voltages

> the flux of the armature reaction and the flux of the additional pulse involving additional losses, more intensive heating and reduced efficiency and poorer commutation. For investigating these phenomena, the laboratory of the Novocherkassk Electric Locomotive Works has carried out a series of experiments and developed special test circuits. Development of these circuits presented certain difficulties which were aggravated by the fact that the problem has not been dealt with in literature. In this paper, the basic results are given of experimental investigations. In the experiments, two machines were used, one operating as a generator, the other as a motor. In one series of experiments the motor was operated on DC with a superimposed AC component. In the second series of experiments a rectified voltage was used. The temperature rise in the windings as well as the quality of commutation were investigated in both series of experiments.

Card2/4

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Experimental Investigation of Traction Motors Which Are Fed by Pulsating Voltages

In Figure 3 the limits are graphed of the commutation of the traction motor for various degrees of pole shunting $(\beta = 90\%, 55\%$ and 36%) as a function of the pulsation coefficient and the current intensity. In Figure 4 the dependence is graphed of the transformer e.m.f. on the pulsation coefficient of the supply current. On the basis of the obtained results, the author concludes that feeding of DC motors with pulsating (rectified) voltages leads to the following: - overheating of the armature winding is up to 15% higher than in the case of feeding with an appropriate DC voltage; commutation becomes poorer; the deterioration in the commutation is not influenced greatly by the transformer e.m.f., which is induced in the short-circuited sections of the armature, but it is affected to a great extent by the non-coincidence in phase of the commutation flux and the flux of the armature reaction. There are 4 figures and 1 table.

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Experimental Pulsating Vol	Investigation of Tracticn Motors Which Are Fed by tages
ASSOCIATION:	Novocherkasskiy elektrovozostroitel'nyy zavod (Novocherkassk Electric Locomotive Works)
SUBMITTED:	June 9, 1958
Card 4/4	

SOV/144-58-11-12/17

AUTHORS: Dorofeyev, B. G. (Senior Lecturer), Meyerovich, Sh. S. (Candidate Technical Sciences, Docent, Department Head), Stukalkin, A. N. (Engineer), Kurochka, A. L. (Engineer). Experimental Investigation of the Ventilation of Electric TITLE: Locomotive Starting Resistances of a New Type (Eksperimental'noye issledovaniye ventilyatsii elektrovoznykh puskovykh soprotivleniy novogo tipa)

- PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1958, Nr 11, pp 107-111 (USSR)
- ABSTRACT: Resistances type KF are used on electric locomotives types N-8 and VL-23 and others. Previous work has shown that although these metal strip resistors are much better than the previous cast iron ones, the coils are not uniformly cooled and there is a temperature difference of 240°C between the front and back of the element and accordingly the material is not so fully used as it should be. Accordingly, new types of resistance have been developed at the Novocherkassk Electric Locomotive works, and the Novocherkassk Polytechnical Institute, and the works laboratory has collaborated in testing

Card 1/4

SOV/144-58-11-12/17

Experimental Investigation of the Ventilation of Electric Locomotive Starting Resistances of a New Type

the cooling of such a starting resistance type LF-1. The construction of resistance box type LF-1 is described and illustrated diagrammatically in Fig 1. The comparison between resistances type KF and type LF-1 given in Table 1 shows that the new resistances are smaller, and lighter and use much less insulation than the old though they are of higher power. The new resistances are also of simpler con-struction than the old. It is required that under operat-ing conditions the local temperature rise of the resistance element surface should not exceed 450°C. In order to make the necessary tests of temperature rise a simple wind-tunnel was constructed, which is described and illustrated diagramnatically in Fig 3. In the tests measurements were made of the air flow, the temperature rise of the resistance elements, the power consumption and the air temperatures at inlet and outlet. The methods of measurement are described. The air speed ranged up to 8.75 m/sec and the current from 98 to 230 A. The test procedure is described. It was found that the heating is much more uniform than in resistances type KF.

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Experimental Investigation of the Ventilation of Electric Locomotive Starting Resistances of a New Type

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According to conditions the greatest difference between the temperature rise of front and rear surfaces was 60-160°C, and accordingly the power of the resistance could be increased by 34% or the flow of cooling air could be reduced. The relationship between the permissible current and rate of air flow is given in Fig 4. An equation is given for the relationship between the permissible current and the air flow when all nine rows of resistance are in use, with a temperature rise of 450°C. Temperature rises of the different rows of resistances are given in Fig 5 and Fig 6. The temperature distribution could be somewhat improved by

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SOV/144-58-11-12/17 Experimental Investigation of the Ventilation of Electric Locomotive Starting Resistances of a New Type altering the design of the fixing pins in the centre of the elements. There are 6 figures and 1 Soviet reference. ASSOCIATIONS: Kafedra teoreticheskikh osnov teplotekhniki Novocherkasskogo politekhnicheskogo instituta; Novocherkasskiy elektrovozostroitel'nyy zavod (Chair of Theory of Fundamentals of Thermal Boer Engineering, Novocherkassk Folytechnical Institute, and Novocherkassk Electrical Locomotive Works) SUBMITTED: July 2, 1958.

APPROVED FOR RELEASE: 06/19/2000

SOV/10-58-7-17/21 AUTHOR: Kurochta, A.L., Engineer, and Lozanovskiy, A.L., Engineer. TITLE: The principal works' laboratory of the Lovocherkassk Electric Locomotive Works. (Vedushchaya zavodskaya laboratoriya Novocherkasskogo elektrovozostroitel 'nogo zavoda) PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Nr 7, pp 58-61 (USSR) ABSTRACT: The principal works laboratory (VTsZL) for electric locomotive construction and traction equipment was set up in 1955 in succesion to the Electro-technical Laboratory of the Novocherkassk Electric Locomotive Works. The laboratory was expanded and the staff increased. An organisation diagram of the laboratory is given in Fig 1. The investigations of the laboratory follow an annual thematic plan. Current work is according to monthly plans. The main directions of work are: investigations on the design, construction and introduction of new electric locomotives; the investigation of new materials and development of new manufacturing processes; the Card 1/4

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The principal works' luboratory of the Novocherkassk Electric Locomotive Works.

> investigation and improvement of the quality and life of the products; the study of the operation of locomotives; and finally the execution of type and adjustment tests on experimental and production locomotives. The experimental facilities of the works were extended so that these tasks could be undertaken: test beds were set up for electrical machines, traction apparatus and models of locomotive assemblies. Rigs were constructed for testing gears and transmissions, bogies, starting resistances and other iters, and a cynamometer car was built. The more important test beds and rigs are then briefly described. In 1957 the laboratory made fundamental contributions to the development and production of the new a.c. locomotive type N-6C. Work was also done on improved materials such as silicone insulation, epoxy resins, there-setting insulating varnishes and on new instruments and methods of control. One example of the work concerning the asynchronous caracitor notors used as availiary machines on the new single-phase/d.c. electric locomotive type NC, which were not satisfactory

Card 2/4

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The principal works' laboratory of the Novocherkassi: Electric Loconotive Works.

because of their low starting-torque. To improve this the laboratory proposed the introduction of phase-splitters. The system was made up and installed in five locomotives and was found to be reliable. The same solution will be adorted for the new locomotives type N60. Torque curves of motor type AS81-6 in the condenser form when operated from a three-phase supply and from a phase-splitter are shown in Fig 4. The starting torque is 80% greater when the phase-splitter is used. Work was done to improve the magnetic systems of traction motors and the manufacture of insulation for them. The induction distribution in the alr-gaps of traction motors type DPE-400 and ND410 under rated conditions are shown in Fig 5. It will be seen that the sugnetic system of motor NE410 is much the better of the two, the effects of armature reaction being reduced. The laboratory, working together with the All-Union Thermotechnical Institute, has developed the application of Card 3/4 silicone insulation. Work has also been done on electric

The principal works' laboratory of the Novocherkassk Electric Locomotive Works.

circuits, for instance on a six-motor regenerative circuit. Circuit stability studies were also undertaken. Other work done by the laboratory is briefly described. The laboratory has recently strengthened its association with various scientific institutions and contracts have been concluded with 16 institutes. In fact, the requirements of the vorks are outgrowing the laboratory, which will require Card 4/4 further extension. There are 5 figures.

SUBLITTED: May 2, 1958.

1. Industrial plants--USSR 2. Industrial plants--Operation

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KUROCHKA, A.L., insh.; ZUSMAHOVSKAYA, L.L., insh. Using new materials in electric locomotive construction. Zhel.dor. transp. 40 no.10:60-62 0 '58. (MIRA 11:12) (MIRA 11:12) (Electric locomotives--Construction)

KUROCHKA, A.L., inah. Investigating resistance of a six-motor eystem of recuperative braking with cyclical stabilisation. Sbor.LIIZHT no.159:18-42 (WIRA 12:2) (Blectric railroads--Brakes) (Blectric railroads--Brakes)

APPROVED FOR RELEASE: 06/19/2000



KUROCHKA, A. L., Candidate Tech Sci (diss) -- "Analysis of stabilized systems of regenerative braking using DC current". Leningrad, 1959. 18 pp (Min Transportation USSR, Loningrad Order of Lonin Inst of Railroad Transport Engineers im Acad V. N. Obraztsov), 150 copies (KL, No 22, 1959, 116)

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CIA-RDP86-00513R000927720018-5

PHASE I BOOK EXPLOITATION SOV/3990

Kurochka, Aleksandr Leont'yevich, Aleksandr Leont'yevich Lozanovskiy, and Lyubov' L'vovna Zusmanovskaya

- Ispytaniya tyagovykh mashin i apparatov elektricheskikh lokomotivov i teplovozov . (Testing of Traction Machinery and Apparatus of Electric and Diesel Locomotives) Moscow, Transzheldorizdat, 1959. 215 p. 5,000 copies printed.
- Ed.: L.S. Sokolov, Engineer; Tech. Ed.: G.P. Verina.
- PURPOSE: This monograph is intended for technical personnel engaged in the production, operation, and maintenance of electric traction equipment, and for students of transportation schools of higher education.
- COVERAGE: The book describes methods used in testing electric machines and apparatus of electric locomotives, electric train sections, and diesel locomotives in all stages of manufacture and repair. In addition, the book discusses equipment design and electric circuit diagrams of test stations. The authors thank Candidate of Technical Sciences N.N. Sidorov and Engineer B.G. Kuznetsov. There are 30 references, all Soviet.

Card 1/-5-

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FIESEL', G.K., inzh.; KUROCHKA, A.L., inzh.; BABIN, A.S., inzh.

Some practical aspects of operating VL23 series electric locomotives. Elek. 1 tepl. tiaga 3 no.2:33-37 F '59. (MIRA 12:4)

(Electric locomotives)

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KUROCHKA, Aleksandr Leont'yevich, kand.tekhn.nauk, nauchnyy sotrudnik; LUR*YE, Marat Iosifovich, nauchnyy sotrudnik

Calculating trasient processes of electric locomotive circuits on digital computers. Izv.vys.ucheb.zav.; elektromekh. 3 no.2: 38-51 '60. (MIRA 13:7)

1. Novocherkasskiy nauchno-issledovatel'skry institut elektrovozostroyeniya. (Electronic digital computers)

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NHONE DESIGNATION STREET

KUROCHKA, A.L., kand.tekhn.nauk; SITNIK, N.Kh., kand.tekhn.nauk; FOSKHUBKO, A.A., inzh. (Poskrobko)

Prospective a.c.locomotive. Zhel.dor.transp. 42 no.7: (MIRA 13:7) 13-20 J1 '60. (Electric locomotives)

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CONTRACTOR OF STREET KUROCHKA, Aleksandr Loont'yevich; ZUSMANOVSKAYA, Lyubov' L'vovna; SIDOROV, N.I., inzh., Fed.; USENKO, L.A., tekhn. red. ş. [New insulation for traction motors] Novaia izoliatsiia tiagovykh ź dvigatelei. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va (MIRA 14:7) putei soobshcheniia, 1961. 94 p. (MIRA 14:7) (Electric railway motors) (Electric-insulators and insulation)

KUROCHKA, A.L., kand.tekhn.nauk

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Research institute of the electric locomotive industry. (MIRA 15:5) Vest. elektroprom. 32 no.5:4-7 My '61. (Electric locomotives)

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KUROCHKA, A.L. (Novocherkassk)

Ways of improving main-line electric locomotives. Ztel.-dor. transp. 43 no.9:14-19 S '61. (MIRA 14:8)

1. Zamestitel' direktora Nauchno-issledovatel'skogo instituta po elektrovozostroyeniyu.

(Electric locomotives---Design and construction)

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BYSTRITSKIY, Kh.Ya.; KUROCHKA, A.L.

Immediate prospects of the Soviet manufacture of electric locomotives. Zhel.dor.transp. 44 no.5:27-32 My '62. (MIRA 15:5)

1. Zamestitel' glavnogo inzhenera Glavnogo upravleniya lokomotivnogo khozyaystva (for Bystritskiy). 2. Zamestitel' direktora Novocherkasskogo nauchno-issledovatel'skogo instituta elektrovozostroveniya (for Kurochka).

(Electric locomotives)

APPROVED FOR RELEASE: 06/19/2000

YANOV, Viktor Petrovich; KUNOCHKA, A.L.; ALIKIN, R.I.; KOLYCHEV, G.K., inzh., retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; DROZDOVA, N.D., tekhn. red.

> [Auxiliary machines of main line d.c. locomotives] Vspomogatelinye mashiny magistralinykh elektrovosov postdiannogu toka. Moskva, Transzheldorizdat, 1963. 119 p. (MIRA 16:8)

(Electric locomotives--Electric equipment)

APPROVED FOR RELEASE: 06/19/2000

ALIKIN, R.I.; CORDIYENKO, F.I.; BESPROZVANNYY, I.G.; ZHIBTDOV, P.F.;
ZOLOTAŁEV, P.A.; ZUCRANY TOKAYA, L.I.; IBRAGIMOV, K.G.; KOTOPŁZOV,
M.A.; KOKOREV, A.I.; KUPRIANOV, YU.V.; KUPOCHEA, A.L., kand.
tekhn. nauk; LITVINOVA, L.M.; IDZANOVSKIY, A.L., kand. tekhn.
nauk; MAVDRIKOV, F.I.; MAKHANYKOV, L.V.; PUKAIOV, V.I.; RAYLYAN,
A.F.; SVERDLOV, V.Ya.; SKLYAFOV, B.S.; SOLOVYYEV, K.M., kand.
tekhn. nauk; STUKALKIN, A.N.; SURGVIKOV, A.A.; TIKHONOV, N.G.;

[VIEO electric locomotive.] Electrovoz VAEO. Novocherkassk. Nauchnoissledovatel'skii institut elektrovozostroeniia. Sbornik nauchnykh trudov, vol. 5) (MIHA 18:5)

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	5028764	SOURCE CODE:	UR/0269/66/00C/006/0060/0060	
UTHOR: Kun	rochka, L. N.	a sana ana ana ang ang ang ang ang ang ang		
ITLE: Deto	ermination of the p	hysical parameters of a l	imb chromospheric flare	
OURCE: Ref	f. zh. Astronomiya,	Abs. 6.51.463	· · · · · · · · · · · · · · · · · · ·	
EF SOURCE:	Solnechnyye danny	ye, no. 7, 1965, 45-53		
OPIC TAGS:	solar flare, sola	r limb, Doppler shift		
			tant, values of the optical e Doppler width $\Delta \lambda_D$ were obtain	n-
valuations	were performed usi	ng various methods; one o	f the limb flare of 20 July 199 f these methods (suggested by d $\Delta\lambda_n$ are used to calculate the	
isturbance erature def etermined b he entire y	temperature is app termined from optic from optically thin volume of the flare	roximately 5000°. It coi ally thick lines, and exc lines. Turbulence rates ; their maximum (approxim	speed. It is found that mean ncides with the radiation tem- eeds the radiation temperature may be considered equal over ately 46 km/sec) is contained down. 27 references. V. Banin	
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ACC NRI AT7002856	(N) SOURCE CODE: UR/3239/66/000/003/0083/00
AUTHORS: Nebesnov	V. I.; Kurochka, L. Ya.
ORG: none	
TITLE: The perfor	ance of marine engines under storm conditions
SOURCE: Nikolayev sooruzheniye no. 3 83-87	Korablestroitel'nyy institut. Sudostroyeniye i morskiye 1966, Sudovyye energeticheskiye ustanovki (Ship power equipment)
TOPIC TAGS: ship elasticity	omponent, marine engine, engine performance characteristic, shaft
equations of motio change of the rela cal characteristic the characteristic motion of the ship (0 sovmestnoy rabo	mics of ship propulsion units with elastic coupling between the screw was investigated analytically for storm conditions. The of the system elements were taken in the standard form. The ive torque of the elastic coupling was represented by the mechani of a single-cell electromagnetic slip clutch. This approximates of marine hydrodynamic clutches. The effects of the rocking were introduced in accordance with the findings of M. A. Grechin e grebnogo vinta i dvigatelya v usloviyakh volneniya i kilevoy y TSNIIMFa, vol. 35, 1961). Since the equations can not be solve

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KUROCHKA, N.V.; GOLOVIN, S.A.

Installing supports for an overhead contact network from the track. Transp. stroi. 13 no.7:9-10 Jl '63. (MIRA 16:9) (Electric railroads--- Poles and towers)

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KUROCHKA, V.P. Halloysite in phosphorite-bearing argillities of the Driester ancient Paleozoic. Trudy Inst.gool.AN Uz. SSR no.9:174-180 '53. (MIRA 12:1) (Driester Valley--Halloysite) (Driester Valley--Argillite)

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KUROCHKA, V.P.

Halloysite in phosphorite-bearing argillites of the Dniester ancient Paleozoic. Trudy Inst.geal.nav. AN BSSR no.1:174-180 '58. (MIRA 12:1)

(Dniester Valley--Halloysite) (Dniester Valley--Argillite)

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MARY NO. PROMINENT

KUROCHKA, V.P. . . . Bentonites in Kel'mentsy District, Chernovtsy Province. Bent. gliny Ukr. no.2:50-64 '58. (MIRA 12:12) Ukr. no.2:50-64 '58. 1. Chernovitskiy gosudarstvennyy universitet. (Kel'mentsy District--Bentonite)

AUTHOR :	Kurochka, V. P 20-119-2-45/60
TITLE:	Halloysite in Phosphorite-Containing Argillites of the Ancient Palaeozoic Era of the Pridnestrov'ye Region (Galluazit v fosforitonosnykh argillitakh drevnego paleozoya Pridnestrov'ya)
PERIODICAL:	Dorlady Akademii Nauk SSSR, 1958, Vol 119, Nr 2, pp. 351 - 353 (USSR)
ABSTRACT: Card 1/4	Halloysite is extensively distributed in loamy rocks of different age, however, it was not ascertained up to now among Cambrian sediments. The author has ascertained a thin interstratification (of from 4-5cm) of argillite of halloy- interstratification in the mentioned argillites of the site-like composition in the mentioned argillites of the min'kovetskiy horizon of the Ushitskaya suite. The phospho- rite-containing horizon, which is now (with question mark) classified into the Cambrian era is built up by argillites, the main rockforming mineral of which is represented by illite (Reference 6). The min'kovetskiy horizon is charac- terized by its concretions of primary phosphorites with coarse crystalline sulphide formations of nonferrous metals.
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Halloysite in Phosphorite-Containing Argillites of the Ancient Palaeozoic Era of the Pridnestrov'ye Region

> Thus occurrence of halloysite can help to explain the conditions of the exterior environment as one of the main factors of the sedimentary ore formation. Because of the lack of organic remains in the horizon its sediments cannot be biostratigraphically reconciled with the analogous deposits of east-and west-volyn'. Therefore halloysite in certain circumstances can also be used for correlation purposes. Then the mentioned argillite is described in detail. The orientated aggregates of its loam substance have a micro-scaly structure and a refraction index of 1,555 to 1,559. The heating curve (figure 1a) is distinguished by the endothermic effects at 130° and 580°C typical for halloysite and by an exothermic effect at 960°C. The first endoeffect corresponds to the transition to metahalloysite, the second to a complete dehydration of halloysite (Reference 7). The effect at $960^{\circ}C$ corresponds to the destruction of the lattice of the crystal and to the formation of a new compound. The dehydration curve

Card 2/4

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Halloysite in Phosphorite-Containing Argillites of the Ancient Palaeozoic Era of the Pridnestrov'ye Region

> (figure 1b) has 4 clearly defined sections: correspondingly at $20-100^{\circ}C -3.57\%$, at $100-300^{\circ}C -1.03\%$, at $300-550^{\circ}C -10.72\%$, and between $550-900^{\circ}C -0.90\%$ of water is eliminated. By the X-ray diagram obtained with an iron radiation the most characteristical halloysite lines are fixed (Reference 3), which entirely correspond to the data on dehydration and those of the thermal analysis (table 1). Furthermore, results of the spectrum absorption of the suspension (dyed blue by benzidin, type IV, figure 2) are given. Electron-microscopic investigations confirm the presence of montmorillonite, which was demonstrated by dyeing by further dyes. Table 2 gives results of the chemical analysis. The mentioned montmorillonite also causes the deviation of the relation Al_{20} :SiO₂, which here is equal to 1:1.94, from the theoretical relation (1:2)(Reference 3). Thus the main rock-forming mineral of the argillite under consideration is halloysite. Those of secondary importance are kaolinite and montmorillonite. Halloysite ought to

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Halloysite in Era of the Pri	Phosphorite-Containing Argillites of the Ancient Palaeozoic idnestrov'ye Region
	be a result of the diagenetic change of illite. The associa- tion of the mentioned 4 minerals gives evidence of a wide modification range of the pH-value during the period of formation of the mentioned argillites and confirms the theorem on the illite-montmorillonite-stage of the decomposition of mica (Reference 4). There are 2 figures, 2 tables, and 7 re- ferences, 7 of which are Soviet.
ASSOCIATION:	Institut geologicheskikh nauk Akademii nauk BSSR (Institute for Geological Sciences of the Academy of Sciences of the Belorussian SSR)
PRESENTED:	September 2, 1957, by D. I. Shcherbakov, Member, Academy of Sciences, USSR
SUBMITTED:	September 2, 1957
Card 4/4	

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KUROGREA, V.P., Gond Gool-Ain Sci -- (disk) "Cycles of sedimentition-accusal: tion of envolvent P-leozoic deposite of Pridmentrev'ye and unvironmental adaptation of eley miner 19, respectements, and cortain mineral resources to these evolves." Fine', 1959. 39 pp (Fin of Higher Education UKSSR. L'vov State U im Iv: n Franko). 150 copies List of author's work', pp 38-39 (10 titles) (KL, 37-59, 106)

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KUROCHKA, V.P. ها همتانهما والمعاور بمناطبتهم أستاد وبارم

STATISTICS MILLS

Cycles and facies of the lower Paleozoic along the Dniester. Dok1.AN BSSR 3 no.3:116-122. Mr '59. (MIRA 12:8) :

1. Predstavleno akademikom AN BSSR K.I.Lukashevyn. (Dniester Valley--Geology, Stratigraphic)

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STREET, MARKING

F.

MAKHNACH, A.S.; KUROCHKA, V.P. [Kurachka, V.P.]

Stratigraphy and lithology of late Pre-Cambrian and Cambrian sediments at the village of Kuranets in Vileyka District, Nolodechno Province. Vestsi AN BSSR.Ser.fiz.tekh.nav. no.4:89-103 '59. (NIRA 13:4) (Vileyka District--Geology, Stratigraphic)

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 TITLE: On the Boundary Between the Lower Cambrian and the Ordovician of the Pridnestrov'ye FERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 5, pp 1085 - 1086 (USSR) ABSTRACT: It is urgently necessary to find an agreement between the numerous data collected in recent times on the cross sections of the Lower Paleozoic of the Russian platform. This problem meets with difficulties because the position of individual stratigraphy units especially in such a classical natural cross section as the Pridnestrov'ye has not yet been determined. The interpretation of the position of the mentioned formations depends in numerous cases on the solution of the problem of the character of the boundary between the Komorovskiy and Molodovs-kiy horizon. At present, the boundary mentioned in the title is usually drawn at the base of the latter horizon (Refs 1,3,8,11, 12). It may be seen from detailed investigations that the Molodovskiy horizon may be regarded in this case as a shortened stratum of typically marine formations. The latter are not connected 	3(5) AUTHOR:	Kurochka, V. P.
pp 1085 - 1088 (USSR) ABSTRACT: It is urgently necessary to find an agreement between the numerous data collected in recent times on the cross sections of the Lower Paleozoic of the Russian platform. This problem meets with difficulties because the position of individual stratigraphy units especially in such a classical natural cross section as the Pridnestrov'ye has not yet been determined. The interpretation of the position of the mentioned formations depends in numerous cases on the solution of the problem of the character of the boundary between the Komorovskiy and Molodovs-kiy horizon. At present, the boundary mentioned in the title is usually drawn at the base of the latter horizon (Refs 1,3,8,11, 12). It may be seen from detailed investigations that the Molodovskiy horizon may be regarded in this case as a shortened stra-	TITLE:	
numerous data collected in recent times on the cross sections of the Lower Paleozoic of the Russian platform. This problem meets with difficulties because the position of individual stratigraphy units especially in such a classical natural cross section as the Pridnestrov'ye has not yet been determined. The interpretation of the position of the mentioned formations de- pends in numerous cases on the solution of the problem of the character of the boundary between the Komorovskiy and Molodcvs- kiy horizon. At present, the boundary mentioned in the title is usually drawn at the base of the latter horizon (Refs 1,3,8,11, 12). It may be seen from detailed investigations that the Molo- dovskiy horizon may be regarded in this case as a shortened stra-	PERIODICAL:	
Card 1/4 tum of typically marine formations. The latter are not connected	ABSTRACT :	numerous data collected in recent times on the cross sections of the Lower Paleozoic of the Russian platform. This problem meets with difficulties because the position of individual stratigraphy units especially in such a classical natural cross section as the Pridnestrov'ye has not yet been determined. The interpretation of the position of the mentioned formations de- pends in numerous cases on the solution of the problem of the character of the boundary between the Komorovskiy and Molodcvs- kiy horizon. At present, the boundary mentioned in the title is usually drawn at the base of the latter horizon (Refs 1,3,8,11, 12). It may be seen from detailed investigations that the Molo- dovskiy horizon may be regarded in this case as a shortened stra-
	Card 1/4	tum of typically marine formations. The latter are not connected

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On the Boundary Between the Lower Cambrian and the Ordovician of the Pridnestrov'ye

> with the separation from the sea and the main land i.e. with a transgression but with a recession (Ref 6). At first sight there is the impression that this is a basal stratum of transgressive origin of the sandstones of the Molodovskiy horizon. Actually, however, they were only strong marine currents which at a constant depth of the waters had considerably eroded the sediments deposited earlier. Due to this fact an incorrect idea of a transgressive sequence was obtained. The author gives 6 proofs of lithological and faunistical character for the correctness of this concept, among them the papers by O. I. Nikiforova (Ref 7) D. V. Nalivkin (Ref 6), and Th. Vascautanu (Ref 13). The mention. ed strong marine currents were formed as a consequence of the relief changes of the bottom of the sea. The currents differed spatially and chronologically so that also the r eroding force differed. This fact also explains a strong variability of the thickness and the lithological composition of the Molodovebiy horizon. In connection with the above explanation of the facial character of the mentioned horizon a revision of the hitherto concepts of the stratigraphic position of the oldest Paleozoic of the mentioned area becomes necessary. The spore complex

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507/20-127-5-42/58 On the Boundary Between the Lower Cambrian and the Ordovician of the Pridnestrov'ye

> investigated in 6 samples by B. V. Timofeyev (Ref 11) characterizes only the Bronitskiy horizon (according to the stratigraphic scheme by M. F. Stashchuk, Ref 9). This complex is to be regarded as corresponding to that of the laminarite strata of the Pribaltika (Baltic countries) and to the laminarite strata investigated by A. S. Makhnach (Ref 5) in northern Belorussiya. Since the age of the Molodovskiy horizon which closes the cross section of the oldest Paleozoic in the mentioned area was reliably determined as Ordovician on the basis of the fauna, the underlying formations without transgression are to be regarded also as Ordovician. The lower boundary of the Ordovician is thus in the roof of the phosphorite-bearing argillites of the Molodovskiy horizon. The following horizons must also be classified as belonging to the Ordovician: Sokoletskiy, Komorovskiy, and Molodovskiy (Scheme by G. Kh. Dikenshteyn, Rof 1). There are 13 references, 12 of which are Soviet.

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SOV/20-127-5-42/58 On the Boundary Between the Lower Cambrian and the Ordovician of the Pridnestrov'ye ASSOCIATION: Institut geologicheskikh nauk Akademii nauk SSSR (Institute of Geological Sciences of the Academy of Sciences, USSR) April 17, 1959, by N. S. Shatskiy, Academician PRESENTED: SUBMITTED: April 15, 1959 Card 4/4

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MAKHWACH, A. S., KUROCHKA, V.P., PAP, A.M., MOLYAVKO, L.M. Weathering crust of the crystalline foundation rock in the area of Grodno. Dokl. AN BSSR 4 no.7:307-310 J1 '60. (MIRA 13:8) 1. Institut geologineskikh nauk AN BSSR. (Grodno District--Petrology) In the second second TABLE PARAMETERS POPULA -.

MAKHNACH, A.S.; KUROCHKA, V.P.; PAP, A.M.; MOLYAVKO, L.M.

Some features of the distribution of trace elements in rocks of the crystalline bedrock and the overlying weathering surface in the vicinity of Lososno and Glebovichi (Grodno Province). Dokl.AN BSSR 4 no.9:387-389 S '60, (MIBA 13:9)

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MAKHNACH, A.S.; KUROCHKA, V.P.; GOLUBTSOV, V.K.

Ruptures in the Strelichevo upheaval of the Pripet downwarping, their extent and age. Dokl. AN BSSR 5 no.8:352-356 Ag '61. (MIRA 14:8)

1. Institut geologicheskikh nauk AN BSSR. (Strelichevo region-Geology, Structural)

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MARTHMACH, A.S.; HT COULA, V.P.; URIXEV, I.I.

The Middle Dovenian deposits at Bragin and their lithologic and petrographic char cteristics. Dokl. IN ESSR 5 no.9:393-(HIRA 14:10) 396 S 161.

1. Institut geologicheshildh nauk All BSSN. (White Russia--Goology, Stratigraphic)

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AN FRANK STATE DESCRIPTION AND INCOMENTS

CIA-RDP86-00513R000927720018-5

MAKHNACH, A.S.; KUROCHKA, V.P.; UR'YEV, I.I.

Upper Devonian deposits of Bragin and their petrographic characteris-tics. Dokl. AN BSSR 5 no.10:458-461 0 '61. (MIRA 15:3)

1. Institut geologicheskikh nauk AN BSSR. (Bragin region--Petrology)

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BOBROVNIK, D.P.; KUROCHKA, V.P. Hydrobiotite in Lower Paleozoic sediments of the Dniester Valley. Vop. min. osed. obr. 6:34-43 '61. (MIRA 15:6) (Dniester Valley--Hydrobiotite)

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NEVMERZHITSKAYA, Z.M.: KUROCHKA, V.P.

Formation of structures of the Pripet Depression in the Permian and the Triassic. Dokl. AN BSSR 6 no.3:181-184 Mr *62. (MIRA 15:3)

1. Institut geologicheskikh nauk AN BSSR. Predstavleno akademikom All BSSR K.I.Lukashevym. (Pripet Valley -- Geology, Structural)

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ACCESSION NR.: AT4034465

s/3091/63/000/002/0056/0061

AUTHOR: Ivanchuk, V. I.; Kurochka, Ye. S.

TITLE: The problem of classification of the spectra of auroras

SOURCE: Kiyev. Universitet. Sbornik rabot po Mezhdunarodnomu geofizicheskomu godu, no. 2, 1963, 56-61

TOPIC TAGS: aurora, auroral classification, upper atmosphere, auroral brightness, auroral height, auroral spectrum

ABSTRACT: Investigations by Stormer and his associates have shown that the lower the height of auroral luminescence the greater will be its mean brightness. It follows that there should be a spectrum-brightness dependence (assuming the correctness of certain conclusions drawn by the author in this and other papers). The proposed form of the spectrum-brightness dependence has been given elsewhere (V. I. Ivanchuk, Sbornik rabot KGU po MGG, no. 1). This latest paper gives quantitative estimates of the mean effective brightness for a large number of spectra on the basis of observations at Tiksi Bay. Table 1 in the original gives brief extracts from the observation journal for each of the 36 studied spectra and results of determination of the spectral type s in accordance with the classification presented Cin the above-cited paper. The table also gives the commencement time for exposure 1/2

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ACCESSION NR.: AT4034465

and the corresponding times of observation of the most characteristic auroral forms and their intensity in a 4-unit scale with an accuracy to a half-unit. The forms and colors are given in accordance with the classification recommended by the Institute of Terrestrial Magnetism, the Ionosphere and Radio Wave Propagation (Informatsionny*y sbornik MGG, no.3, 74, 1957). The table reveals that the assumption of existence of a spectral type-auroral brightness dependence is confirmed. The spectra of low type-B auroras possess great brightnesses 2-3-4. High type-A auroras for the most part decrease in brightness to the brightness of the night sky (assigned the value 0.5). Orig. art. has: 1 formula, 2 figures and 1 table.

ASSOCIATION: Kiyevskiy universitet (Kiev University)

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ACCESSION NR: AT4032229

8/3089/63/000/005/0305/0311

AUTHOR: Ivanchuk, V. I.; Kurochka, Ya. S.

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TITLE: Comments on the classification of auroral spectra

SOURCE: AN UkrSSR. Mezhduvedomstvenny*y geofizicheskiy komitet. Geofizika i astronomiya; informatsionny*y byulleten', no. 5, 1963, 305-311

TOPIC TAGS: aurora, upper atmosphere, spectrometer, auroral classification

ABSTRACT: The authors discuss the spectral, photoelectric and spectrometric methods for studying emissions of the upper atmosphere. They note that photoelectric and spectrometric methods make it possible to narrow greatly the limits Δ t and Δ ?-- the space-time resolution, but that a considerable number of short comings are involved. However, the mass-nature of observations with such instruments can compensate for their inadequacies and permit detection of both general and local peculiarities of auroras. The authors have already published a spectral classification of auroras (Sb. rabot po MGG, KGU, No. 1, 58, 1961); much of this article is understandable only with reference to that paper. They have found that the character of the spectrum is determined primarily by the height of the luminescence or the depth of penetration into the atmosphere of the Cord 1/2

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agent responsible, for auroras. Additional arguments are presented in this paper to validate this conclusion. If this height-spectrum relationship is correct, there also should be a spectrum-brightness dependence. A study of spectral observations at Tiksi Bay for the years 1958-1959 was made to determine whether such a relationship in fact exists; processing revealed the reality of the relationship. The spectra of low type-B auroras have great brightnesses 2-3-4. High type-A aurorag for the most part decrease in brightness to the brightness of the night sky (assigned the value 0.5). In addition to the evidence of the 36 spectra used, other facts are presented to substantiate the spectrum-brightness relationship. The possibility of determining height of luminescence on the basis of spectrum is proposed to replace the more tedious traditional base measurement method. Orig. art. has: 5 figures, 2 formulas and 1 table.

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ASSOCIATION: Kiyovskiy gosudarstvenny*y universitet (Kiev State University)

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KUZNETSOV, S., kand.tekhn.nauk; KUROCHKIN, A., inzh.

Recent developments in the design of silos for grain and flour. Muk.-elev.prom. 30 no.1:10-11 Ja ¹64. (MIRA 17:3)

1. Gosudarstvennyy proyektnyy institut po proyektirovaniyu predpriyatiy i sooruzheniy zernovoy i mukomol'noy promyshlennosti.

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KUROCHKIN, A., inzh.; RYSINA, Ye., inzh.; NOZHNITSKIY, Y., inzh.
Increasing the durability of walls of the reinforced concrete frame of elevators. Muk.-elev.prom. 28 no.9:19-22 S '62. (MIRA 15:10)
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