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SEEDSTELA. Praha, Czechoslovasia. Vol. 9, no. 10, Oct. 1959.

Monthly list of East Airopean Accessions (2:AI) I.C. Vol. 9, no. 2, Feb. 1960 Unel.

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STOUL, Zdonak, ins.

Standardization of transmission chains and chain wheels at the International Organization for Standardization. Normalizace 11 no.6:189-191 Je *63.

1. Urad pro normalizaci a moreni, Praha.

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STOUD, Zder.ek

New system of measures. Ropa a uhlie 5 no.7:216-221 J1*63.

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                                        Quantities, units, and symbols in thermodynamics. Normalizace
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the later 2/039/61/022/012/003/009 2291/0306 9.5100 (1043, 1160) ACTLORD: Ilberg, Vladimir, Engineer, and Stourad, Ladielay, Engineer, Condidate of Julences The influence of thermoelectric cooling on the value of the residual current of the collector and the power of germanium junction transistors PERIODIDAL: Slopproudy obzor, v. 22, no. 12, 1961, 725-728 TLAT: The article discusses the influence of thermoelectric coolirg by a semiconductor cooling element working on the principle of the roltion offect and its influence upon the collector reverse second I_{k0} and on the collector loss \tilde{P}_k in 200 mW germanium jungtion transistors. Methods for improving the functional transistor presenters by thermselectric cooling are discussed in several Sc-viet papers and are also the subject of two Szech patents granted to the authors of this article. The influences of thermselectric cooling open static parameters of Soviet p-n-p P25 germinium junce 1 m 1 1 1

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The influence of thermoelectric ...

the trade laters were investigated and cooling elements used in the tests consisted of n and p type semiconductor materials based the protemor Bi-Te-Se and Bi-Te-So. Utilization of the cooling Semant with an input of 2 W permitted considerable reduction of the values normal operational conditions, i.e. at room temperature $f(x) = P_{km(x)}$ and a four- to fivefold increase of the permissive -llector loar at ambient temperatures of 25 - 60° , while retainlag the nominal value of I_{ko}. Use of this method can also be ad ventageous to the function of the other semiconductor elements and tarts, dute working points and operation are adversely affected by heat. Thermoelectric cooling of transistors requires consider it of tents (10 to 20 A) at low voltage which makes this method suitable for coling under special conditions, where the overall sift iency is not of importance and where a suitable source of is areast is available to feed the cooling element, e.g. a storage story. The efficiency may considerably be increased and cooling

submatically entrolled when the cooling element is connected in

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The influence of thermoelectric ...

cories to the source of collector voltage of the power transistor, or in series to the power rectifier. Thermoelectric cooling of transistors will gain in importance when new thermoelectric matecials for cooling elements and thermoelectric generators are introbured. By combining three such elements, a temperature of -100°C can be reached. There are 6 figures and 21 references: 12 Soviettion and 9 non-Soviet-bloc. The references to the 4 most recent capitable indications read as follows: J. S. Saby: Fused imparity P-N junction on transistors. Proc. IRE 40 (1952), no.11, p. 356; J. A. Morton: Present status of transistor developments. Proc. IRE 40 (1952), no. 11, p. 1314; W. W. Gärtner: Temperature lependence of junction transistor parameters. Proc. IRE 45 (1957), no. 5, p. 662; L. D. Armstrong, D. A. Jenny: Behavior of germanium junction transistors at elevated temperatures and power-transistors design. Proc. IRE 52 (1959), no. 3, p. 527.

ASSOCIATION: Üstav radiotechniky a elektroniky ČSAV, Praha (Institute of Radio Engineering and Electronics, Czechoslovak AS, Prague) (V. Ilberg); Üstav technické

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"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653410020-9 30600 z/033/61/022/012/003/009 D291/D306 The influence of thermoelectric ... fyziky, ČSAV, Praha (Institute of Physical Technolo-gy, Czechoslovak AS, Prague) (L. Štourač) June 15, 1961 JUBMITTED: 04rd 4/4

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1 Marshard - 4 4 The semiconducting compound SiTe. Karri Sufficients, Ladislav Stourač, and Jan Berlind. Creekader, J. Phys. 7, 139–21007 (in German). It had been bound property that the tellurides of Pb and of So crystallure in the in-metric (cubic) system and have a NaCl istifice. It was found also that Pb, So, and Ge each form only a single mono-telluride (Pb Te, So Te, Ge Te), but that Si forms not only the monotelluride, but also the duclfuride. The phys. proper-ties of the previously described SaTe use. It must Store 4–4? Its crystal fatures is not of the NaCl type. Its d. is 3.01 It is a semeconductor, with an evice of d. S. 10.2 of m⁻¹ the size a break at point temp. Its thermal cool, is 1.5 × 10⁻² cal. Menter composition of the temp dependence of the coult thows a break at point temp. Its thermal cool, is 1.5 × 10⁻² cal. Menter composition of the temp of the temp. 1//

Cemiconductor: in mordorn electrotechnique. p.315. (Technicka Fraca, Vol. 9, No. 5, May 1957, Fraticlava, Czechoslovakia)

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CO: Monthly list of Mart European Accessions (MEAL) 10. Vol. 4, No. 6, Cept. 1077. Uncl.

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Cletter, L.; Hickel, J; Sulfell, R.

SiTe semiconductors. p. 107. (Ceskoslovensky Casopis Pro Fysiku. Vestnik. Vol. 7, no. 1, 1957.)

SO: Monthly List of East European Accession (EERL) LC, vol. 6, no. 7, July 1997. Uncl.

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STOURAC, L.

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STOURACE, L. Indium antimonide as a material for the manufacture of probes used in the measurements of magnetic fields by means of the Hall effect. p. 627

Vol. 47, no. 12, Aug. 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 5 May 1959, Unclass.

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STOURAG, L.; SWIROUS, K.

Gooling couples for direct energy conversion based upon seminonductive systems. r. 210

ELEFTROTECHNICKY OBZOR. (Ministerstvo tezkeho strojirenstvi a Ceskoslovenske vedecka technicka spolecnost pro eloktrotechniku pri Ceskoclovenska akademii ved) Praha, Czechoslovakia. Vol. 48, No. 4, Apr. 1959

Monthly List of Mast European Accessions (EMAI), LV, Vol. 8, No. 7, July 1959 Uncl.

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desiren meties compounds serving as suterial for the construction of accient elements based on the feltier effect. p.313

LETICIE TO ICKY OPZOR. (Miristerstvo tezkeho strojirenstjvi a Ceskerlevenske vedera technicka sporecnest pro elektrotechniju pri Ceskcelovenske adaenii ved) Frata, Cezechcilovakia Vcl.L8, no.7, July 1959

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Stourač, Ladislav, Candidate of Science AUTHOR:

International Conference on Semiconductor Physics in Prague TITLE: PERIODICAL: Vestník Československé akademie věd, no. 5, 1960, 516 - 522

Mezinárodní konference o fyzice polovoičů (International Con-TEXTI ference on Semiconductor Physics) was convened in Prague on August 29 -September 2, 1960, at the Československá akademie věd (Czechoslovak Ácademy of Science), with the consent of the International Union of Theoretical and Applied Physics (IUPAP) and the assistance of the CSSR Government and the UNESCO. The conference was attended by 168 Czechoslovak and 593 foreign delegates from a total of 26 countries; 278 reports were included in the a-genda, but could not all be delivered. The 22 main reports on the present state of research into basic problems of semiconductor physics will be published in the Report of the Conference. The conference opened with a ple-nary session at the Dům umělců (House of Artists) with an address by Minister Z. Nejedlý, Academician and President of the ČSAV (Czechoslovak Academy of Science) and 2 introductory reports. Academician A. P. loffe (USSR) read a

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International Conference on ...

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paper on new ways in semiconductor research. Dr. W. Shockley (USA), Bearer of the Nobel Prize, reported on his research on properties of p-n junctions. Other reports were delivered in 21 sections (A - W), 5 of which were organized as discussion groups. Semiconductor band structures were dealt with in section (B). F. Herman (USA) reported on application of computers in calculation of semiconductor parameters. W. Kohn (USA) reported on the present knowledge of semiconductor band structure and on theoretical data processing. S. V. Vonsovskiy and G. G. Taluc (USSR) reported on a more accurate multi-electron theory. J. G. Phillips reported on wider application of the method to study electron-structures of solid bodies, which was primarily developed and applied by E. Antončík of the OTF ČSAV (Institute of Technical Physics, Czechoslovak Academy of Science). Transport phenomena, dissipation processes, fast electrons, galvanomagnetic and other phenomena of semiconductors were dealt with in sections (C, D and E). C. Herring (USA) reported on the progress in semiconductor transport-effect theory. Reports on the mechanism of interaction between free current carriers and acoustic and optical phonons in semiconductors with homeopolar and heteropolar binding were delivered by G. Whitfield (USA), W. Klose (GDR) and

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I. M. Tsidilkovskiy (USSR). T. P. McLean and E. G. S. Paige (England) reported on interaction between both current carrier types in germanium. B. M. Vul, E. I. Zavaritskaya and V. A. Chuyenkov (USSR) reported on electrical conductivity of semiconductors in strong electric fields. A. L. McWhorter, R. H. Rediker (USA), J. C. Sohn (France) and G. Lautz (FRG) reported on impulse ionization of germanium and silicon. W. Sasaki (Japan), W. P. Wei and W. F. Love (USA) reported on new magneto-resistance phenomena. R. J. Sladek, R. W. Keyes (USA) and others reported on galvanomagnetic phenomena in semiconductor materials. D. L. Dexter (USA) reported on the theory of excess electron-carrier pairs and holes originating in semiconductors. Various transport-phenomena were dealt with in section (F). R. N. Hall (USA) reported on the application of the tunnel phenomenon in the study of transport phenomena. W. Shockley and K. Hubner (USA) reported on the discovery of the tunnel effect and P. Aigrain (France) reported on the helicon theory. Volume recombination in semiconductors was dealt with in section (G). S. G. Kalashinkov (USSR) reported on research conducted at Soviet laboratories on recombination and impurities of germanium and silicon. Optical properties of semiconductors were dealt with in two sessions of section (1). B. Lax (USA) reported on the significance of magnetic fields, low temperatures and

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the entire electromagnetic spectrum on semiconductor research. J. Tauc and A. Abraham of the UTF CSAV (CSSR) reported on the dependence of reflection spectra on the composition of solid-solution Ge-Si systems and some semiconducting compounds of the $A^{III}B^V$ type. F. Lukeš and E. Schmidt (ČSSR) reported on the dependence of optical constants of germanium on temperature. Phenomena, connected with the origin of "excitrons" (term introduced by Soviet physicist Ja. I. Frenkel) in ion crystals and semiconductors were dealt with in section (K). E. F. Gross (USSR) reported on optical and magnetooptical phenomena and their application in studies of the band structure of semiconductors and excited states. J. R. Haynes, M. Lax, W. F. Flood (USA), C. Benoita and O. Parodi (France) reported on the influence of "excitrons" on current-carrier recombination in germanium and silicon. J. Pastrnák of the FU ČSAV (Physical Institute Czechoslovak Academy of Science) reported on optical properties of copper-oxide. Photoconductivity of semiconductors was dealt with in section (L). R. A. Smith and A. Rose (USA) reported on the contribution of photoconductivity to the knowledge of basic semiconductor properties. J. Shwiderski (Warsaw) reported on further development of inhomogeneity investigation of semiconductor crystals with the aid of the

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International Conference on ...

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photovoltaic effect, which was discovered by J. Tauc and Z. Trousil of the UTF ČSAV. Physics of surface effects were dealt with in section (M). M. Lax (USA) reported on the present knowledge of semiconductor-surface effects. E Antončík, J. Koutecký and M. Tomášek (ČSSR) reported on the basic theory of semiconductor-surface electron structure. J. A. Dillon jr. and R. M. Oman (USA) reported on tests to prepare an entirely pure germanium surface. A V. Rzhanov (USSR), A. Many (University of Jerusalem) and others reported on studies of germanium-surface states. Resonance of semiconductors was dealt with in section (N), the pertinent paper was read by G. Feher (USA). Thermal and thermoelectrical properties of semiconductors were dealt with in section (0). Academician Ioffe (USSR) reported on electrical and thermal properties of semiconductors which are not yet fully illuminated. (Ioffe heads a school at the Semiconductor Institute of the Soviet Academy of Science in Leningrad). Problems of ion crystals were dealt with in section (P). W Känzing (USA) reported on the present state of color-center models in alkalimetal halogenides, established by paramagnetic resonance. S. I. Pekar (USSR) compared calculated and test-values of parameters, characteristic for absorption and emission bands of alkali-metal halogenides. A. Bohun and others, of the UTF CSAV reported on tests, made at the UTF to

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study physical phenomena of NaCl crystals with cadmium admixtures. K. Vacek of the Charles University in Prague reported on the theory of luminiscence in silver halogenides. General problems of semiconductor physics were dealt with in section (Q). G. Busch (Switzerland) reported on magnetic properties of Ge and Si solid solutions K. W. Böer (GDR) reported on recently observed inhomogeneities in semiconductors and insulators. L. V. Keldysh, V S. Vavilov and K. I Britsin (USSR) reported on the investigation of electrical-field distribution and currents in semiconductors with the aid of the electrosptical effect. Semi-conducting compounds were dealt with in section (R). C. G. B. Garrett (USA) reported on the present state of studies on organic semiconductors. P. J. Norin (USA) reported on properties of compounds containing transition metals. G. H. Jonker (Netherlands) and H. P. R. Frederik (USA) reported on related problems. V. P. Zhuze and other Soviet physicists reported on properties of materials which have a missing atom in the grid-structure of the semiconductor. H. Welker (FRG) reported on complex semiconductor systems with covalent binding. Further reports were made by K B. Tolpys of Kiyev, W. B. Pearson (Canada) and J. P. Suchet (France) The discussion in section (S) was opened by D. N. Nas-

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ledov (USSR) who read a paper on present state of research into semiconduc-tor compounds of the AIIIBV type, such as indium antimonide, indium arsenide, Eallium argenide, etc. Properties of elements tellurium and selenium were dealt with by section (T). Reports were delivered by J. S. Blakemore (USA), F. T. Hedcock (Canada), and F. Eckart (SDR). V. Prosser (CSSR) reported on the dependence of band structure on optical and photoelectrical properties of selenium. Discussions in section (3) were opened by a report of E. Rodot (Paris) on the present knowledge of semiconducting heavy-element tellurides and selenities and their solid solutions. This report was supplemented by papers of K. Smirous and L. Stourad of the UTF CSAV. Mrs. H. Rodot (France) reported on new systems, suitable for direct energy conversion, on properties of antimony and silver tellurides, etc. Discussions in section (V) were opened with a report by W. W. Piper (USA) on semiconducting cadmium and zinc sulfides. Discussions in section (W) were opened with a report by E. Justi (FRG) on semiconductors ZnSb and CdSb, who also acknowledge ed the two papers in this field, compiled by the UTF CSAV. The closing plenary meeting was held on September 2, 1960. J. Tauc evaluated in his summary report the contributions made at the conference, and mentioned the progress made since the last conference held in Rochester, USA. The significance of basic physical research into semiconductors was emphasized by J. Bardeen (USA) and B. M. Vul (USSR). Card 7/7

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with a fultion-cell cooler, in such a manner that the fultier cell is in direct contact with the device to be cooled. When both devices are mounted in a single capsule, an insulating layer is usually placed between them which prevents the possibility of electric coupling. This, however, is accompanied by a lowering of the effipiency of the cooling device, since there is a considerable temperitare drop across the insulating layer. The construction suggested rimoves this shortcoming. A schematic of a diode with Feltier cooling is shown in the figure, where: <u>1</u> is the diode, <u>3</u> are the stubs Cara 1/2

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HORG: Ilberg, Vladimir and Stourac, Ladislav

AUTHORS: 110erg, finite and finite cooled by a Pelle-TITLE: A p-n junction semiconductor device cooled by a Pelletier effect element

PERIODICAL: Referativnyy shurnal, Avtomatika i radioelektronika, no. 3, 1962, abstract 3-4-55k (Czechoslovakian patent cl. 21 5, 11/02, no. 96896, 15.10.60)

TEXT: In order to decrease the detendence of a semiconductor device (D) parameters on temperature, it is suggested designing it with a ermanent mechanical connection with a Pelletier effect (PE) element, which would ensure good thermal conduction. The principle of the invention lies in the fact that the SD is connected in series with PE so that all the operating current is passed through PE, with PE so that all the operate supply for the PE, the output powtion. It pays to have a separate supply for the PE, the output powtion. It pays to have a separate supply for the PE, the output powtion of a PE coded junction diode, photodiode, transis-

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Conference on Thermoelectricity in Durham. Us can fys 12 no.1: 89-90 162.

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STOURAC, L., Inz., C.Sc.

A scientific conference on Hall generators and their use. Slaboproudy obzor 24 no.2:119-120 F '63.

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ACCESSION NR: AP3003616 Z/0055/63/013/005/0350/0357 AUTHOR: Smirous, K. (Deceased); Hruby, A.; Stourac, L. TITLE: The influence of impurities on the electric and thermoelectric properties of cadmium antimonide single crystals SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 13, no. 5, 1963, 350-357 TOPIC TAGS: cadmium antimonide electric properties, cadmium antimonide thermoelectric properties, p type cadmium antimonide, n type cadmium antimonide, cadmium antimonide AUSTRACT: In order to determine the influence of impurities in CdSb single crystals, a study was made of electric and thermoelectric properties of high-purity CdSb single crystals doped with Cu, Ag, In, Ga, Ge, Sn, Pb, Se, and Te. It was proved that the n-type conductivity is caused by the presence of electrically active impurities. Cu, Ag, Ge, Sn, and Pb impurities in Cd Sb single crystals behave as ac-ceptors and In, Ga, and Te, as donors (the behavior of Se could not Card 1/2

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be uniquely determined). A schematic model for the substitution of impurity atoms in the CdSb lattice is proposed. The study of carrier concentrations indicates that the first and fourth group elements replace the Cd atoms, and those of the fourth and sixth groups replace the Sb atoms. The temperature dependence of the mobility of current carriers in the impurity region was determined to be proportional to $T^{-1,34}$ for electrons and to $T^{-1,25}$ for holes. It was verified that for lightly and heavily doped samples the electron mobility is smaller than the hole mobility. The density effective masces of electrons and holes were also determined. Orig. art. has: 5 figures, 5 tables, and 2 formulas.

ASSOCIATION: Ustav fyziky pevnych latek CSAV, Prague (Institute of Solid-State Physics CSAV)

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ACCESSION NR: AP4018176

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AUTHOR: Hruby, A.; Stourac, L.

TITLE: Electrical properties of CdSb single crystals doped with silver

SOURCE: Chokhosl. fiz. zhurnal, v. 14, ro. 2, 1964, 130-136

TOPIC TABS: electric property, CdSb single crystal, silver dope, electric conductivity, Hall effect, thermoelectric force, reciprocal temperature, extrinsic conduction, lattice mobility, hole, lonized acceptor, impurity center

ABSTRACT: An earlier paper (Grech. J. Phys., 193, 1963) studied the properties of " GdSb single crystals doped with elements of the first group of the periodic system. The present studies the electric and thermoelectric properties of GdSb single crystals weakly and heavily doped with elevents and gives measurements of the electrical conductivity, the Hall offect and the thermoelectric force of CdSb samples oriented along the crystalle raphic axis b with various concentrations of silver in three sets of graphs as a function of the reciprocal temperature. In extrinsic conduction, the temperature dependence of the lattice mobility of the holes was found to have the form T^{-1} in this direction. The paper discusses the

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offect of the scattering of heldence of the mobility, and calconduction, finding that they senters: $m_{\mu}^{\mu} = (0.3 \text{ to } 0.65)m_{0}$ l table, 5 graphs and 10 number		otent of inpurity Original has
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	055/65/015/002/0140/0142 63
AUTHOR: Stourac, L.	45
TITLE: The Hall constant in p-type cadmium antimonide netic field	e as a function of the mag-
SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 15,	
TOPIC TAGS: cadmium compound, Hall constant, Hall mol band structure	bility, phonon, semiconductor
ABSTRACT: The dependence of the Hall constant on the and drift mobilities claimed in previous studies was r prepared by the modified Czochralski method were used, had hole concentrations of 5×10^{15} and 2.5×10^{17} cm ² fields were varied from 400 to 8000 G at temperatures oriented by the x-ray method. The results show that t whole range of measurement under these conditions is i in both the b and c crystallographic directions. This only one type of hole. It agrees with the theoretical	not observed. CdSb crystals The two single crystals respectively. Magnetic of 80 and 300°C on samples the Hall constant in the Independent of magnetic field
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conclusions of Pilat. In con Hall and drift mobilities of ed as independent of magnetic scattering at these concentra author thanks A. Hruby, C.Sc. and M. Neuvirtova and J. Mrna 1 figure.	holes up to concentrations field. This agrees with	of 10 ¹⁷ cm ⁻³ can be regard- the assumption that hole	
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The second s	L 21319_66 T/EWP(t) IJP(c) JD ACC NR: AP6003659 SOURCE CODE: CZ/0055/65/015/010/0740/0746 AUTHOR: Hruby, A.; Kubelik, I.; Stourac, L.	
- 1964 - Ale	ORG: Institute of Solid State Physics, Czechoslovak Academy of Sciences, Prague TITLE: Electrical conductivity and thermoelectric power of heavily doped P-type CdSb SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 15, no. 10, 1965, 740-746	
	TOPIC TAGS: cadmium compound, antimonide, Hall effect, Fermi statistical theory, Coulomb interaction, hole mobility, valence band, thermoelectric property	
	thermoelectric power as a function of the temperature was perioduce in the strongly and (b) crystallographic directions on cadmium antimonide single crystals strongly doped with silver. The anisotropy of the electrical conductivity and the mobility of the holes and their mechanism of scattering on lattice vibrations and ionized acceptors are discussed. Also the density of states effective mass of holes is determined. The origin of the anisotropy of the hole mobility and the model of the CdSb valency band are considered. Graphs showing the temperature dependences of the electrical conductivity, thermoelectric power, Hall mobility of holes, and the hole effective mass are presented. Also a table showing the concentration of acceptors in different samples obtained from measurement of the Hall constant at 80K in both	
•	Card 1/2	•

L-21319-66 ACC NR: AP6003659 (b) and (c) crystallographic directions is given. Measurement in the (a) crystallographic direction was not carried out because of brittleness of the material at this orientation. The thermoelectric power was analyzed by means of the general expression applicable for Fermi-Dirac statistics. The Brooks-Herring method of screened Coulomb potential was used in measuring the temperature dependence of hole mobility. The experiment showed that the valence band has two equivalent maxima on its axes of symmetry. The authors thank Prof. J. Tauc and V. Frei for advice and stimulating discussions, V. Miskova, J. Berankova and J. Kaspar for preparing CdSt single crystals and <u>M. Neuvirtova</u> and J. Mrnavkova for help in the experimental work. Orig. art. has: 7 figures, 1 table, and 6 formulas. [Based on author's abstract] SUB CODE: 20/ SUBM DATE: 14Apr65/ ORIG REF: 011/ OTH REF: 006/ SOV REF: 001/ T arð

BUSHIN, V.; YEFREMOV, A.; STOUMOV, V., insh.

Using assembly-line methods in building large-panel houses. Stroitel' no.12:7,10-11 D '59. (MIRA 13:3)

 Glavnyy inshener upravleniya Spetsstroy (for Bushin).
 Glavnyy inshener upravleniya Montashshilstroy (for Yefremov).
 Trest Cherepovetsmetallurgstroy, Cherepovets, Vologodskaya oblast[†] (for Stoumov). (Assenbly-line methods) (Leningrad--Apartment houses)

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CIA-RDP86-00513R001653410020-9

Critical Earablebs and Intitudinal Coundity of Somer Activity Tsirkulyar Astronom. Observ. Lyovsk. un-ta, No 28, 1954, 02-25

The highest latitude of spot formation zone (135%) coincides with the latitude of one of the critical parallels. The middle of the solar activity zone (for flocculi ~55 to 75%, for prominences 145 to 65%) is also close to another critical parallel (-61 to 62%). The active sun layer rotates nonuniformly, because the critical parallels are located on an ellipsoid rotating with variable angular velocity. The shape of the sun is flattened at the poles, evidenced by critical **a** is parallels on the **x** rotating ellipsoid. (RZNAST, No 10, 1955)

SECOND AND DUMERTING

30: Jun-16, 787, 12 Jan 56

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653410020-9"



STOVAS, M.V.

Irregularity in the rotation of the earth as planetary-geomorphological and geotectonic factors. Geol. zhur. 17 no.3:58-69 157.

(MIRA 11:2)

(Earth-Rotation) (Geology, Structural)

MENTER

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653410020-9"

STOVAS, M.V. Latitudinal sonality of earth seismism. Nauch. dokl. vys. shkoly; geol.-geog. nauki po.3:19-29 '58. (MIRA 12:3 (MIRA 12:1) 1. Dnepropetrovskiy gornyy institut. (Seismology)

STOVAS, H.V.

Changeability in the earth's rotation and the geotectonics. (HIRA 12:10) Geol. sbor. [Lvov] no.5/6:447-461 '58.

1.Gornyy institut im. Artema, Dnepropetrovsk. (Barth--Rotation) (Geology, Structural)

3(1) AUTHOR:	Stovas, M.V.	308/43-59-1-12/17
TITLE:	The Potential of the Deforming F Variation of the Rotation of the deformiruyushchikh sil i yego iz tatsionnogo rezhima ellipsoida)	Ellipsoid (Potentsial
FERIODICAL:	Vestnik Leningradskogo universit mekhaniki i astronomii, 1959, Nr	eta, Seriya matematiki, 1(1), pp 119-129 (USSR)
ABUTRACT:	The potential of the deforming f of latitude of the potential of according to L.S. Leybenzon dete ellipsoid. The author considers forces acting on a unit of mass he investigates the variation of of the ellipsoid. Among others to of latitude $\Psi \pm 35^{\circ}$ the potential $\Psi = 0, \frac{\pi}{2}$ there are obtained en	the centrifugal force which rmines the compression of the the potential of the deforming which is on an ellipsoid, and the potential unter rotation he author states : On the degree 1 is equal to zero; for treme values; the deforming
	force F ₂ is decomposed into the	tangential component F (to
Card $1/2$	the meridian) and the normal cos	sponent F _N ; for $\varphi = \pm 35^{\circ}$

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A THE REPORT OF THE PARTY OF TH

The Fotential of the Deforming Porces and Its 301/43-59-1-12/17 Variation Under Variation of the Rotation of the Ellipsoid it is $F_2 = F_N$, $F_N = 0$; for $\Psi = 0$, $\frac{W}{2}$ it is $F_2 = F_N$, $F_M = 0$. The variation of the radial deforming force in dependence on the angular velocity of the ellipsoid causes the deformation of the ellipsoid. The author mentions Krasovskiy!; ellipsoid. There are 6 figures, and 7 tables. SUBMITTED: December 30, 1957 Card 2/2

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DODIN, A.Ym., inzh.; ERIUKOV, I.I., dotment; FRCHIN, A.I., inzh.;
SIRTACHENRO, K.P., inzh.; STOVAS, M.V., dotment; HPSHTEYH, M.M.,
dotment
Engineering and geodetic observations on deformations in transport-
and-dumping bridges. Ugol' Ukr. 3 no.7:24-27 Jl '59.
(MIRA J2;11)
1.Dnepropetrovskiy gornyy institut.
(Mine surveying)
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CIA-RDP86-00513R001653410020-9"

$\langle \langle \cdot \rangle \rangle$	00 V/21-59-5-16 /25
AUTH R.	Stovas, M.V.
TITLE	On a Fossible Cause of Periodic Formation of Flanetary Fractures and Basalt Effusions
FERIODICAL	Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 5, pp 522-524 (USSR)
ABGTRACT:	This is a brief summary of a survey of literature on this subject (indicated in the literature reference block). The decrease in the period of the Earth's rotation required for fracturing the crust layer of the Earth's surface is 11 minutes, according to L.S. Leybenzon (Ref. 3), which with an increase in the length of the day by 1.6 to 2.4 seconds for every 100,000 years should give a 30-40 mil- lionth sychicity in the discharge of accumulated stresses in the crust layer, generating the formation of new, and revival of old planetary fractures. Such cyclic trans- formation of the Earth, as to the scale of geological time and the crust layer is the scale of geological time
Cari 1/3	and rejetition, as well as the planetary nature of the

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SOV/21-59-5-16/25

On a Possible Cause of Periodic Pormation of Planetary Fractures and Basalt Effusions

> phenomenon, is substantiated by historical geology (Ref. 4 and 7). Planetary fractions of meridianal and submeridianal directions reached 2000-4000 km, and arcse mainly in the equatorial zone and in high-latitude zones of both hemispheres ($\pm 62^{\circ}$) [Ref. 5-7]. The latitudinal compression of the crust layer in the equatorial zone entailed extensions of the crust layer at high latitudes, and vice versa. A boundary line of combined deformations was located along the 35° parallel, according to Li Bau-kuang (Ref. 4) between 30-40° lativade. The latitudinal and sublatitudinal planetary fractions occurred mainly in the middle latitudes (Ref. 4-7) near the zone of the critical parallel 1 35°. There are 14 references, 12 of which are Soviet, 1 French and 1 American.

ASSOCIATION: Deepropetrovskiy gornyy institut (Deepropetrovsk Mining Card 2/3 Institute)



5 (5)	30 7/21 34-6-17/27
AUTHOR	Stovas, M. V.
TITLE	Some Questions on the 35 th Parallel of an Ellipsoid of Rotation
FERIODICAL	Dopovidi Akademii Nauk Ukrains'kol RSB, 1959, Nr 6, pp 648 - 659 (US3R)
ABGIRACT Card 1/3	The author presents the result of a mathematical calculation of the deforming force acting on the globe at the critical (1359) parallel, stating that: 1) the potential of deforming forces there equals zero. 2) the normal deforming force like- wise equals zero. 3) the tangential deforming force equals the full deforming force and is directed along a tangent in the meridian direction: 4) the change in the tangential de- forming force with the change in the tangential de- incompressible ellipsoid does not depend on the homogeneity or heterogeneity of the chosen model and is equal to the change in the full deforming force. The potential of de- forming force is expressed.
Uard 1/7	torming force is expresses.

SOV/21-53-6-17/27

$$u_{2} = \frac{\omega^{2}}{6} r^{2} (1 - 3\sin^{2} \gamma) = \frac{\omega^{2} a^{2} (1 - \omega)^{2} (1 - 3\sin^{2} \gamma)}{\omega [(1 - \omega)^{2} \cos^{2} \gamma + \sin^{2} \gamma]}$$
(1)
The full deforming force is represented by equation:

$$\frac{P_{2} - \frac{1}{3} \omega^{2} r (1 + 3\sin^{2} \gamma)^{1/2}}{(1 + 3\sin^{2} \gamma)^{1/2}}$$
(2)
where " ω " is angular rotation speed, "r" is radius of
ellipsoid vector, γ is the geocentric latitude and " ω " is
the polar pressure. The final equation, arrived at after a
series of calculations, is expressed for the 35-th parallel
in the following form:

$$\frac{\partial R}{\partial \omega} = \frac{\sigma^{2} r}{\partial \omega} = \frac{2}{3} \omega r (1 + 3\sin^{2} \gamma)^{1/2}.$$
(12)
There is 1 diagram.

Some Questions on the 35-th Parallel of an Ellipsoid of Rotation

"APPROVED FOR RELEASE: 08/26/2000

SOV/21-59-6-17/27 Some Questions on the 35-th Parallel of an Ellipsoid of Rotation ASSOCIATION: Dnepropetrovskiy gornyy institut (Dnepropetrovsk Mining Institute) FREGENTED By V. H. Bondarchuk (V.O. Boudarchuk) Member, AS UkrSSR SUPMITTED Januar 3, 1959 Card 5/5

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e4(4) AUTHOR:	Stovas, M. V.	30 4/43- 52-13-12/16
TITLE:	Deformations of the Ellipsoid Ellipticity (Critical Paralle	Parameters by Variation of 1s)
PERIODICAL:	Vestnik Leningradskogo univer mekhaniki i astronomii, 1959,	siteta, Seriya matematiki. Nr 13(3), pp 121-136 (USSR)
APJTRACT:	pressible matter rotating mit variation of the rotative spe rotential of the deforming fo of the ellipticity. The autho principal constants of the el circuit, local vector, mean r the meridian, area of a zonal ellipticity. The author prove parallels ($P \approx 0, +20^\circ, +35^\circ$.	sold of revolution of an incom- h a variable rotative speed. The ed implies a variation of the rest and consequently the variation r investigates the variation of the lipsoid (radius of the parallel adius of curvature, are length of strip etc.) in dependence of the s the existence of seven critical $\pm 48^{\circ}$, $\pm 52^{\circ}$, $\pm 65^{\circ}$, $\pm 90^{\circ}$). These deformations. The main role plays rs a change of signs of the
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STOVAS, M.V.

Displacement of a point on the surface of a deformed uniform incompressible ellipsoid of rotation with a change in compression. Dop. AN URS: no.8:1070-1073 '60. (MIRA 13:9)

1. Dnepropetrovskiy gornyy institut. Predstavleno akademikon AN USSR V.G. Gondarchukom.

(Ellipsoid)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653410020-9"

STOVAS, M.V.

Some regularities in the geographical distribution of platforms and folds. Geol. zhur. 20 no. 4:54-63. 160. (MIRA 1414) (Geology, Structural)

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AUTHOR :	Stovas, M. 7.	ŵr,	
TITLE:	the Earth Crust	the Formation of Planetary Deep Paults in	
PERIODICAL:		i nauk SSSR, 1960, Vol. 135, No. 1,	
		tigates the main tension distribution in a	
is characteri number m, the lowing assump	zed by the inner modulus of shear tions are made fo		
is characteri number m, the lowing assump Model A: R ₁ -B	zed by the inner modulus of shear tions are made fo: o = 64 km, K+100,	radius R ₁ , the outer radius R ₁ , the Poisson ing G, and the quantities K and t. The fol- r the model: t=0.2, m=3.7, G=2.10 ¹¹ dyn/cm ² ; X	
is characteri number m, the lowing assump Model A: R ₁ -H Model B: R ₁ -H	zed by the inner modulus of shear tions are made for = 64 km, K=100, = 127 km, K=50,	radius R ₁ , the outer radius R ₁ , the Poisson ing G, and the quantities K and t. The fol- r the model: t=0.2, m=3.7, G=2.10 ¹¹ dyn/cm ² ; t=0.2, m=3.7, G=4.5.10 ¹¹ dyn/cm ² ;	
is characteri number m, the lowing assump Model A: R ₁ -R Nodel B: R ₁ -R Medel C: R ₁ -R	zed by the inner modulus of shear tions are made for o = 64 km, K+100, o =127 km, K+50, o =640 km, K=10,	radius R ₁ , the outer radius R ₁ , the Poisson ing G, and the quantities K and t. The fol- r the model: $t=0.2$, $m=3.7$, $G=2.10^{11}$ dyn/cm ² ; $t=0.2$, $m=3.7$, $G=4.5\cdot10^{11}$ dyn/cm ² ; $t=0.2$, $m=3.7$, $G=7\cdot10^{11}$ dyn/cm ² ;	
is characteri number m, the lowing assump Model A: R ₁ -R Nodel B: R ₁ -R Medel C: R ₁ -R	zed by the inner modulus of shear tions are made for o = 64 km, K+100, o =127 km, K+50, o =640 km, K=10,	radius R ₁ , the outer radius R ₁ , the Poisson ing G, and the quantities K and t. The fol- r the model: t=0.2, m=3.7, G=2.10 ¹¹ dyn/cm ² ; t=0.2, m=3.7, G=4.5.10 ¹¹ dyn/cm ² ;	

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The Froblem o Deep Faults i	of the Formation of Planetary In the Earth Crust	8/020/60/135/001/018/030 8006/8056
The distribut	ions of the main tensions $\sigma_1^{}$, $\sigma_2^{}$	$_2$, and σ_3 are investigated.
Figs. 1 and 3	show the patterns of the dist	ribution of d, and d, according
to breadth an	d depth of the models D and C : ibution of σ_2 in the meridian p	respectively. Fig. 2 shows the
mon that the		
an inc re ase (and a decrease) of the polar of istributions is discussed. <u>P. 1</u>	of sign at 35 ⁰ C. The effect of empression of the globe upon <u>E. Pankovich</u> is mentioned.
an increase (the tension d	and a decrease) of the polar of istributions is discussed. <u>P. 1</u>	empression of the globe upon <u>C. Pankovich</u> is mentioned. (tut in. Artema
an increase (the tension d There are 3 f	and a decrease) of the polar of istributions is discussed. <u>Pril</u> igures. Dnepropetrovskiy gornyy insti	empression of the globe upon <u>C. Pankovich</u> is mentioned. Itut im. Artema <u>oute meni Artem</u>)
an increase (the tension 3 There are 3 f ASSOCIATION:	and a decrease) of the polar of istributions is discussed. <u>P. 1</u> igures. Dnepropetrovskiy gornyy insti (<u>Dnepropetrovsk Mining Instit</u>	empression of the globe upon <u>C. Pankovich</u> is mentioned. Itut im. Artema <u>oute meni Artem</u>)



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STOVAS, M. V.

Doc Tech Sci - (diss) "Experience in mathematical analysis of Lectronic processes caused by changes in the Earth's figure." Leningrad, 1961. 37 pp; (Ministry of Higher and Secondary Specialist RSFSR, Leningrad Order of Lenin and Order of Lator Red Banner Mining Inst imeni G. V. Plekhanov); 150 copies; price not given; list of author's works on pp 36-37 (17 entries); (KL, 7-61 sup, 230)

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STOVAS, M.V.

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Chief -

Latitudinal boundaries of the bands of Jupiter. Mezhdunar.geofis. god no.3:65-70 '61. (MIRA 14:10) (MIRA 14:10) (Jupiter (Planet))

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S/169/61/000/009/009/056 D228/D304

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AUTHOR: Stovas, M. V.

TITLE: The significance of the irregularity of the earth's rotation in the formation of planetary abyssal fractures in the crust

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 9, 1961, 12, abstract 9A90 (Geologichnyy zh., v. 21, no. 2, 1961, 13-24)

TEXT: On the change of polar contraction, a strain ellipsoid--with semiaxes δ_1 , δ_2 , and δ_3 --and also the change in three-dimensional contraction-- Δ --arise at any point of the spherical crustal layer. This evidently produces not only latitudinal meridional fractures and folding, but also disjunctive diagonal stresses--to which the block character of the crust's structure contributes. The hypotheses of gravitational differentiation, radioactive heat and others cannot explain the patterns which are outlined in the chief forms of the world's relief and in its

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The significance of

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geographically-correct planetary formations. All this has impelled some tectonicists to seek the mechanism of the crustal layer's movement in the irregularity of the earth's rotation. Many Soviet researchers have written about the latitudino-meridional direction of planetary folding and abyssal fractures, and also about their connection with the earth's rotation. Most researchers recognize that abyssal fractures, and also deep and surface folding, are the consequence of the geographically-directed planetary compression and stretching of the crustal layer throughout the whole geologic history of the earth. It would be more correct to explain tectonic movements, not by one particular hypothesis (while rejecting all the others, since there are, probably, very many forces acting in the crustal layer), nor by the arbitrarily permissible compression and stretching, but by the conjugate deformation of the terrestial ellipsoid in connection with the irregular axial rotation of the earth in time. / Abstracter's note: Complete translation.//

Card 2/2

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653410020-9"

KRYUKOV, I.I., dotsent; SIHYACHENKO, K.P., inzh.; STOVAS, M.V., dotsent Using an engineering geodetic method to determine deformation of transporter bridges. Izv.vys.ucheb.zav.; gor.zhur. 5 no.2:82-85 162. (MIHA 15:4) 1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy instituta imeni Artema. Rekomendovana kafedroy geodezii. (Transporter bridges)
STOVAS, M.V.; USENKO, D.N. Briefly about the forces of gravity and inertia of our planet. Izv. AN SSSR. Ser.geol 27 no.11:101-102 N '62. (MIRA 15:12) 1. Dnepropetrovskiy gornyy institut. (Gravitation) 10110

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"APPROVED FOR RELEASE: 08/26/2000

ACCESSION NR: AT4032216

\$/3089/63/000/005/0085/0092

AUTHOR: Nesterenko, P. G. (Deceased); Stovas, M. V.

TITLE: Change in the gravitational field as one of the causes of terrestrial seismicity

SOURCE: AN UkrSSR. Mezhduvedomstvenny*y geofizicheskiy komitet. Geofizika i astronomiya; informatsionny*y byulleten', no. 5, 1963, 85-92

TOPIC TACS: geophysics, gravity field, seismicity, earthquake prediction

ABSTRACT: Seismicity and volcanic eruptions have long been considered to be unrelated to cosmic phenomena. This geocentric point of view possibly explains why so little progress has been made in earthquake prediction. This is true although the relationship between earthquakes and cosmic factors was clearly demonstrated by A. Perrey in France during the past century. This article fully discusses his extraordinary papers on this subject (Comptes Rendus des Seances de l'Academie des Sciences, v. XXXVI, N 12, 1853; LXXXI, N 16, 1875). On the basis of statistical data for 125 years he demonstrated that the frequency of earthquakes is related to lunar phases, the distance of the moon from the earth and its culminations, that earthquakes are more frequent at syzygies than at quadratures and more fre-

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quent at perigee than at apogee. Despite this evidence, Perrey's findings fell into obscurity. The foreign literature on this subject is reviewed, for example, in 1958 the Italian geophysicist G. Imbo published dats showing that the eruptions of Vesuvius during 1913-1944 were induced by lunar tides in the earth's crust. The Russian literature on this subject is reviewed; G. P. Tamrazyan rediscovered Perrey's first two laws on the basis of Soviet data although he was unfamiliar with Perrey's studies. Tamrazyan, using data for a large number of regions in the SSSR, repeatedly confirmed Perrey's findings. The year 1960 was a time of high seismicity with severe earthquakes in Morocco, Iran, Chile, Albania and Assam, all which can be related to cosmic conditions, Perrey's first two laws therefore have been confirmed on the basis of abundant evidence. The article concludes with a discussion of the controversial concept of critical parallels. Orig. art. has: 2 tables.

ASSOCIATION: I	Dnepropetrovskiy gornj	*y institut (Dnepropetrovs	k Mining Institute)
SUBMITTED: 00		DATE ACQ: 16Apr64	ENCL: 00
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GERY CT. A.I., Insk.; KEYUKET, J.I., dotsent; SBMACES MC, K.I., Insh.; SICVAS, M.V., dotsent

New method of determining corrections for bonds in the metal construction of transporter bridges. Izv. vys. ucleb. zav.; gor. zhur. 5 no.":57-90 163. (MIHA 16:9)

1. Unepropetrovskiy oldena Tradovogo Krasnogo Chuleni gornyy institut is mi Artena. Rekomendovana kafedrov geodezii Dnepropetrevskogo instituta.

(iransporter bridges)

310VAS, M.V.

Recent young tectonic high in the coastal part of the White and Barents Seas. Dokl. AN SSSR 153 no.6:1415-1417 D '63. (MIRA 17:1) 1. Dnepropetrovskiy gornyy institut im. Artema. Predstavleno akademikom D.V. Nalivkinym.

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STOVAS, M.V. Planetary character of crustal vertical movements. Geol. zhur. 24 no.2118-31 464 (MIRA 18:2) 1. Deepropetrovskiy gornyy institut.

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	Dage (he propertreve) Sining Institute (Imepropetrovskiy gornyy institut)
	TITLE: Secont according novement of the ocean level in the equatorial zone
:	SO VVE: AN 19 rSSR. Mezhduvedomstvennyy geofizicheskiy komitet. Informatsionnyy byul- letea', no. 9, 1966. Geofizika i astronomiya, 73-79
	TOTE TASS: ocean property, ocean floor topography, submarine relief / Courses,
	LOT ACT: There is a great deal of evidence of submersion of the land in the squaterial regions of the Atlantic, Pacific, and Indian Oceans. Peef-building, which regions prolonged sinking, is found throughout these regions. Submarine canyons on the shores of Africa are thought to be due to submerial erosion. There are records in chronological history of the submergence of Ceylon, and submerged villages or formation are visible in places. Studies of submergence on the east coast of North America days the average subsistence rate from 1930 to 1945 as 5 to 7 mm/year, reaching 15 Africa are believed to be four as a maximum. Carbon-14 dating of submerged plant material gave an average ate of 0.8 to 1.6 mm/year in New England. The California Islands are believed to be he tops of submerged ridges. Additional evidence of submergence is a field of positive gravity anomalies in the basins of the East and West Indies, the Sea of Band,
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ene :	

Sector and the sector of the

the believe Sea, the Gulf of Mexico, and the Cuban Sea. Relative submergence can be shown by observations of sea levels in the equatorial zone, where there is a tendency toward general raising of the sea level. The results of this investigation are shown in the accorpanying table.

Station	Years	Apparent increase in level, cm	Speed of increase in level, rm/wr		
			Apparent	From Level- ling	
Laibeal Pan sa Canal <mark>Cone.</mark> Papifin Goeln	1909-1961	+3.976	+2.3	+2.05	
Cristopal. Lanara Canal Asua: Atlantic Ocean	1909-1981	+2.358	+1.1	+0.91	
lalands of Haos. Gulf of Paston. Pacific Ocean Cartimena. Colombia.	1950-1960	+2.990	+5.0	+5.68	
Caribbean Sea Duanto Cortes, Honduran.	1949-1960	+3.202	+5.3	+4.76	
Caribbean Sea	1948-1960	+7.229	+10.3	+11.16	

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Statua -	lears	Apparent increase in level, cm	speed of increase in level, mm/yr	
			Apparent	From Level-
Port an France, Haiti. Cominican Sea Puerto Flata, Dominican	1950-1960	+6.161	+10.3	
kepublic	1950-1959	+6.405	+12.8	6 44 and
Guantanamo Hay. Cuba Fragreso, Mexico. Gulf of	1944-1960	+2.349	+2.6	
Mexico Tampico, Mexico, Gulf of	1952-1961	+1.464	+2.9	
Mexico Vera Cruz. Mexico. Gulf of	1952-1960	+1.983	+4.0	
Mexico Coatuneoalcos, Mexico.	1953-1961	+2.836	+5.7	
Gulf of Mexico La Union, Salvador, Pacific	1952-1959	+0.488	+1.2	
Deean	1948-1960	+4.606	+7.7	+5.85
San Diego. Pacific Ocean	1927-1960	+3.202	+1.9	+2.40
Bermuda Islands, Georgia Puntarenas. Pacific Ocean	1933-1959	+7.777	+6.0	+8.14
	1942-1960	+11.560	+11.6	+12.17

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Fueñaventura. Pacific	1000 1000 1		1		
Ocean	1941-1960	+1.281	+1.6	+1.42	
La Libertad, Ecuador.					
Pacific Ocean	1950-1960	+2.959	+4.9	+4.35	
Taluma, Peru, Pacific				,	
Comm	1942-1960	+1.677	+1.7	+1.54	
Callar. Peru. Pacific Ocean	1942-1955	-1.281	-1.8	-1.82	
Salvador. Frazil	1949-1960	+1.892	+3.2	+2.93	
Italtuba. Prazil	1943-1950	+1.159	+1.9	+2.43	
Pecife. Brazil	1949-1980	-2.44	-4.1	-4.01	
Belet. Brazil	1949-1960	+0.671	+1.1	+0.92	
Fortaleza. Brazil	1949-1957	+7.625	+15.3		
Takoradi. Ghana. Gulf of	•			-	
Guinea 🦾	1900-1061	+4.00	+2.5	+2.53	
Karachi. Pakistan. Arabian					
Sea	1959-1964				
	1894-1920	+1.86	+0.7	+0.79	
Brobbay (Apollo-Bondar).					
Arabian Sea. India	1378-1961	+5.80	+1.4	+1.31	
bhavnagar. Arabian Sea	1937-1955	+13.85	+13.0	+17.41	~*
Madras. Bay of Bengal	1830-1960	+3.477	+1.9	+1.57	
Knurdapuri. Bay of Bengal	1882-1920	-8.72	-4.4	-4,53	
y an	1		1		

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Section Enclosed

Station	Years	Apparent increase in level, cm	Speed of increase	
:			in level, malyr	
			Apparent	From Level- ling
Pile and Hartor. Bay of	ana	a yana kanagiya katifa kana - ng a yana - hak - hak - nak yang dina genya kana kana katifa kana dan ng kata na		
Server .	1948-1901	+1.80	+3.2	+0.75
Calcutta. Env of Hengal	1932-1961	+1.189	+0.9	
Sugar Islands. Bay of Bengal	1982-1835	+14.03	+0.5	
	1937-1992	+19.31	+1.0	
	1945-1956	+33.34	+0.9	
Port Blair, Andeman Islands.				
Indian Ocean	1880-1920	+3.752	+1.3	+1.8
Rangoon. Burma	1980-1960	+3.29	+0.80	+0.13
Bangkok Bar. Gulf of Siam	1940-1956	+1.50	+1.8	+2.57
No-dnang, Trailand	1940-1956	+0.47	+0.5	+0.05
Manila, Philippine Islands			1	
South China Sea	1901-1910	+4.48	+2.4	
	1926-1938	+1.58	+1.4	
	1948-1958	+6.07	+2.2	
homolulu. Hawaiian Islands	1905-1936	+2.531	+1.6	+1.63
Aden	1880-1933	+0.18	+0.06	-0.06
1	1937-1959	+0.52	+0.5	
SUB CODE: 03/ SUBH DATE:	none/ O	RIG REF: 020/	OTH REF:	013
Card 5/5			an ng mga ng	an cumunter c

	URCE CODE: UR/0116/66/000/006/0047/0049
AUTHOR: Shikhov, V. Yu. (Engir	
ORG: none TITLE: Using electronic compute multitool machining	ers for designing metal-cutting oper-tions in
SOURCE: Mekhanizatsiya i avton	utizatsiya proizvodstva, no. 6, 1966, 47-49
TOPIC TAGS: metal machining,	electronic computer, special purpose computer
linear programmer, are unconsed. was developed in the Rostov Instit	f linear mathematical models and methods of A new method that obviates these shortcomings auts of Farming Machinery and the Rostov rection" method includes techniques formerly ; optimal set of machines; a share of the
Card 1/2	UDC: 681.142.353

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ACC LK: APOULDON

operation cost, which depends on metal-cutting conditions, is adopted as an optimizing deficient. An analytical expression of the target function (given in the action) is bounded by productivity, permissible torque, tool strength, machine-part strength, machine kinematics. A source plan of machining is step-by-step corrected by the above method which, among other things, estimation of set-up tool endurance. Orig. art, hast 1 figure and 6 formulas.

SUB CODE: 13, 09 / SUBM DATE: none

Cord 2/2

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for enteric bact.)

(BACTERIA,

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