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VORBRODT, K.; CHORAZY, M.

Cytochemical and cytophotometric studies on the effect of actinomycin D on the cells of the regenerating liver of a rat poisoned with thioacetamide. Bull. acad. Pol. sci. (Biol) 13 no.3:131-137 '65.

1. Submitted December 31, 1964.

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CHORAZY, M.; GRABOWSKA, M.

Inhibition of RNA and protein synthesis in cell culture by actinomycin D. Bull. acad. Pol. sci. [Biol.] 13 no.4:195-199 165.

1. Submitted January 2, 1965.

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CHORAZY, Mieczyslaw.

Simple type of a chamber for metabolic studies. Acta physiol. polon. 6 no.4:455-457 1955.

1. Z Instytutu Onkologii Oddsiał w Gliwicach Dyrektor: dr J.Swiedki Zaklad Biologii Nowstworow, Kierownik: prof. dr K.Dux. (METABOLISM. chamber for determ. of metab. in animals (Pol))

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Cherney, M. Nitrogen balance in tumos bearing rate. M. Chorazy (Inst. Oucol., Gliwice, Polard). Bull. acad. Polaw. ici., Classe II. 4, 7-12(1950)(in English).---White male rate were implanted with salcoma (type not stated). All (celling was by stomach tube given 3 times/day and the diet consisted of 1.8 g. of protein, 10.9 c. of catbohydrate, and 1.0 g. of fat each day. After 2 weeks the times-bearing rats had buth a *P(D)* but the differences were all present in changes in the tumor. The higher N balance was due to a lower excretion of 1% in the urine. The N retention in the body of the tumor-bearing rats increased simultaneously with the increase of the tumor wt. but at a slower rate than the tumor-bearing rate. There was greater tumor-wt. gain than could be explained by the ami, of N retained and this was detd, by analysis as due to a docrease of the N/uoit wt. of the tumor, as the tumor mass increased. CARLES THE PARTY OF THE PARTY OF

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| Abs Jour | eral Problems of Pathology - Tumors. Metabolism. U. : Ref Zhur - Biol., No 2, 1959, 8747 | |
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| Author Inst Title | : Chorazy, M. : 2 Instyfy Jy On Kiloli - 00 : The Effect of Operative Removal of a Turior on the Nitrogen Balance in Rats. | . |
| Orig Pub | : Acta biochim. polon., 1957, 4, No 1, 23-32 | |
| Abstract | : A nitrogen retention 50% higher than normal was denons- trated in rats 24 days after the transplantation of sar- conata into them. Four days after the sarconata were re- moved the nitrogen balance returned to normal. A recur- rence between the 5th-9th day after the operation was again accompanied by a nitrogen retention. Preliminary extirpation of the suprarenals led to a slower return of the nitrogen balance to normal in the rats after the re- moval of the sarcona S.Ya. Marmorshteyn | |
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| Abs Jour | : Ref Zhur - Biol., No 21, 1953, 98161 | |
| Author Inst Title | : Chorazy, M. : | |
| Orig Pub | : Acta biochin. polon., 1956, 3, No 2, 131-148. | |
| Abstract | : To rats with a transplant of sarcorn, food was administe- red through a catheter which contained a constant amount of N and which assured a positive nitrogen balance. 2 weeks after grafting, a gain in weight of the body and in- tensive retention of N were noted. The tumors, in accor- dance with the progress of their growth, were losing N I.S. Neyfel'd | |
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| CHORAZY, | Mieczys law | | |
| | Problem of nitrogen metabolism in a tumor-bearing organism. Poste hig. med. dosw. 12 no.3:263-282 1958. | ф у | |
| | 1. Zaklad Biologii Nowotworow. Instytutu Onkologii. Gliwice, Wybr Gzerwonej Armii 15. (NITROGEN, metab. in cancer, review (Pol)) (NEOPIASMS, metab. nitrogen, review (Pol)) | ZCZC | |
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1 CHORAZY, Mieczyslaw Studies on the penetration of desoxyribonucleic acid into Ehrlich exudative carcinoma cells. Postepy hig. med. dosw. 16 no.1:37-83 162. 1. Z Ihstytutu Onkologii w Gliwicach Dyrektor: dr J. Swiecki. (NEOPLA3MS exper) (DESOXYRIBONUCLEIC ACID metab) INTERNATION OF COMPANY

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SCHNIEBERG, Krzysztof; CHORAZY, Mieczyslaw Content of lipoid bodies in the erythrocytes of black C-57 mice in relation to the lieno-hepatic system. Acta physiol. polon. 13 no.2: 293-299 162. έ. 1. Z Instytutu Onkologii, Oddział w Gliwicach Dyrektor: dr J. Swiecki Z Zakladu Analiz Klinicznych Instytutu Kierownik: dr K. Schneiberg Z Zakladu Biologii Nowotworow Instytutu Kierownik: dr M. Chorazy. (SPLEEN physiol) (LIVER physiol) (LIPIDS blood) (ERYTHROCYTES metab)

CIA-RDP86-00513R000509010011-4

POLAND

A. VORBRODT, M. CHORAZY and T. WILCZOK, Department of Tumor Biology, Institute of Oncology (Zaklad Biologii Nowotworow, Instytut Onkologii), Gliwice.

"Autoradiographic Studies on In Vitro Uptake of Neterologous RNA and DNA by Isolated Normal and Neoplastic Neoplastic Nuclei."

Warsaw, Bulletin de l'Academie Polonaise des Sciences, Serie des Sciences Eiologiques, Vol 10, No 10, 1962; pp 417-420.

Abstract [English article]: Study of penetration of C^{14} or H^3 -labelled RNA or DNA into nuclei of rat thymus, liver or Novikoff hepatoma cells: ATF increased incorporation; DNAse decreased radioactivity. Highest incorporation was observed in the liver, less in thymus and hepatoma. Two tables, 6 microphotographs; 5 Polish and 7 Western references.

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VORBRODT, A.; CHORAZY, M.; WILCZOK, T.

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Autoradiographic studies on in vitro uptake of heterologous RNA and DNA by isolated normal and neoplastic nuclei. Bul Ac Pol biol 10 no.10:417-420 '62.

1. Department of Tumor Biology, Institute of Oncology, Gliwice. Presented by J. Heller.

APPROVED FOR RELEASE: 06/12/2000



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624.91 : 691.11.003 3866 Choraty R. An Economic Type of Wooden Roof Designed by Kopkowler. MT "Oszczędnościowy dach drewniany według projektu inż. F. Kopkowicza". Inżynieria i Budownictwo. No. 7, 1954, pp. 202-206, 2 figs., 7 tabs. The demands of economic policy after World War II for savings in limber have called for new solutions concerning the construction of roof trusses, designed primarily on the basis of static computations. The Kopkowicz truss design involves a number of changes, but in principle retains the purlin-clamp system. Savings in timber amount to 36%. The truss has been tested at the experimental centre of the Building Technics Institute. - - -

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| Certain derivatives of urea and their e muscles. Farmacja Pol 20 no.9/10:330-11 | 31 25 My 164. | |
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| 1. Instituts of Pharmacology, Silesian Zabrze. Head: doc. dr med. T.Chruscia | School of Medicine, 1. | |
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CHORAZYNA, H.; STEPIEN, L.

Impairment of auditory recent memory produced by cortical lesions in dogs. Acta biol exper 21:177-187 '61.

1. Department of Neurophysiology, Nencki Institute of Experimental Biology, Warsaw.

(DOGS) (BRAIN)

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CHORAZYNA, H.; STEPIEN, L.

neraire Regeneration

> Impairment of recent memory of the auditory stimuli after bilateral ablations of sylvian gyri in dogs. Bul Ac Pol biol 9 no.3:117-120 (EEAI 10:9/10)

1. Department of Neurophysiology, M. Nencki Institute of Experimental Biology, Polish Academy of Sciences. Presented by J. Konorski.

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CHORAZYNA, H.; KONORSKI, J.

Absolute versus relative cues in differentiation of tones in dogs. Acta biol. exp. 22 no.2:11-21 '62.

1. Department of Neurophysiology, The Nencki Institute of Experimental 1. Department of Non-F-Biology Warsaw, Poland. (HEARING physiology)

APPROVED FOR RELEASE: 06/12/2000

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APPROVED FOR RELEASE: 06/12/2000

KALINENKO, I.G., kand.biologicheskikh nauk; CHORBA, L.N.; GORYACHEV, N.P. Strong winter wheats in Rostov Province. Zemledelie 24 no.8:38-41 (MIRA 15:9) l. Zernogradskaya gosudarstvennaya selektsionnaya stantsiya Donskogo nauchno-issledovatel'skogo instituta sel'skogo khozyaystva. (Rostov Province-Wheat-Varieties) 14

KALINENKO, I.G., kand.biolog.nauk; CHORBA, L.N. Harvesting time and the quality of strong wheats. Zemledelie 25 no.7:39-41 (Caucasus, Northern-Wheat-Harvesting) (MIRA 16:9)

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APPROVED FOR RELEASE: 06/12/2000

CHORBADZHIYEV, D.P. (Scfiya)

Use of nomographic methods in solving a quasi-linear partial equation. Nom. sbor. no.3:52-68 '65.

Nomographic method of determining errors in the projective transformation of rectilinear scales. Ibld.:69-75 (MIRA 18:10)

CHORDASH, L.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000509010011-4" AUTHORS: Laslo Chordash and D'yerd' Mentsel' 70-3-3-25/36

TITLE: Determination of the Dimensions of the Elementary Cell of the Space Group of the Hydrate of Potassium Thiosulphate $K_2S_2O_3 \cdot 1/3H_2O$ (Opredeleniye razmerov elementarnoy yacheyki prostranstvennoy gruppy 1/3 gidrata tiosul'fata kaliya $K_2S_2O_3 \cdot 1/3H_2O$)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 3, pp 372 - 373 (USSR)

ABSTRACT: From Weissenberg photographs the dimensions of the unit cell of $K_2S_2O_3$.1/3 H₂O were found to be a = 9.389 ± 0.004 Å, b = 6.00 ± 0.03 and c = 30.98 ± 0.02 and β = 98⁰22' ± 03'. The space group was found to be P2₁/c, d_{obs.} = 2.262 ± 0.002 and Z = 12. Powder photographs showed weak lines not in the ASTM index. There are 4 references, 2 of which are German, l English and 1 French.

ASSOCIATION: Institut eksperimental'noy fiziki Budapeshtskogo universiteta im. Loranda Etvesh (Institute of Experimental Physics, Lorand Ečtvös University, Bydapest) SUBMITTED: February 10, 1957.

Card 1/1

CHORESKU, F. [Chorescu, F.], prof. In the Rumanian Atomic Physics Institute. IUn. tekh. 4 no.9:46-47 s '9. 1.Zamestitel' direktora Instituta atomnoy fiziki AN Rumynekoy Marodnoy Respubliki. (Rumania--Atomic energy research)

APPROVED FOR RELEASE: 06/12/2000

KOVARSKIY, A.Ye., red.; YAROSHENKO, M.F., red.; GEYDEMAN, T.S., red.; DIKUSAR, I.G., red.; DOROKHOV, L.M., red.; ZUBKOV, A.A., red.; PELYAKH, M.A., red.; FURDUY, F.I., red.; CHEBOTAR', A.A., red.; CHORIK, F.P., red.; BOLIYEVA, L., red.

> [Transactions of the Third Conference of Young Moldavian Scientists] Trudy III nauchnoi konferentsii molodykh uchenykh Moldavii. Kishinev, Kartia moldoveniaske. No.2.[Biological and agricultural sciences] Biologicheskie i sel'skokhoziaistvennye nauki. 1964. 273 p. (MIRA 17:8)

1. Nauchnaya konferentsiya molodykh uchenykh Moldavii, 3d.

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GUZHIN, G.S.; OROZALIYEV, S.; OTORBAYEV, K.; UMURZAKOV, S.; CHORMONOV, B. Mikhail Mikhailovich Kartavov; on his 50th birthday. Izv. Kir. fil. Geog. ob-va SSSR no.4297-98/ 163. (MIRA 16:12) ξ, THE SERVICE AND CHARLES CO ÷.

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CHORMONOV, Bakas Sharshembiyevich; SIDORUV, Aleksandr Fedorovich

[Industrial progress in the Kirghiz S.S.R.] Promyshlennyi progress v Kirgizskoi SSR. Frunze, Kirgizskoe gos. izd-vo 1963. 227 p. (MIRA 17:4)

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SOV/137-57-6-10823 Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 202 (USSR) AUTHOR: Chormonov, T.Kh. TITLE: X-ray Investigation of Types II and III Residual Stresses in Nr 2Kh13 Steel (Rentgenograficheskoye issledovaniye ostatochnykh napryazheniy II i III roda stali 2Kh13) PERIODICAL: Sb. nauch. tr. Kazakhsk. gorno-metallurg. in-t, 1956, Nr 13, pp 380-388 ABSTRACT: A study is made of the relation between the values of residual stresses (RS) and conditions of machining. Specimens in the form of plates measuring 10x20x8 mm are cut from cylindrical blanks and electropolished. X-ray photography is done with a BSV tube with gobalt anticathode. A collimating system with two 0.8-mm dia-phragms is used to produce the parallel X-ray beam. It is found that as machining speed of Nr 2Kh13 steel rises in the interval from 220 to 660 m/min, the value of type II residual stresses declines, all other conditions being equal. Low machining speeds are accompanied by a sharp rise in type III RS. The depth of penetration of Card 1/2types II and III RS declines as machining speed is increased from

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CHERMONOV, T. K Category : USSR/Solid State Fhysics - Structure of Deformable E-8 Materials Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6735 : <u>Chormonov, T.Kh.</u> : X-ray Diffraction Investigation of the Surface Quality of Luthor Title Motals Worked by High Speed Cutting. Orig Fub : Izv. AN SSSR, ser, fiz., 1956, 20, No 6, 703-705 Abstract : No abstract Card : 1/1

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人物学校和学校生活的情况和保护的主义的变形的生产的生产和学校生活的 Equivalences 1. An. Category: USSR / Physical Chemistry - Crystals B-5 Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29762 Author : Chormonov T. Kh., Gelimzhanov R. Sh. : Kazakh Mining and Metallurgical Institute Inst : Growing of Rochelle Salt Crystals with Admixtures and Investigation Title of Some of Their Physical Prperties. Orig Pub: Sb. nauch. tr. Kazakhsk. gorno-metallurg. in-t, 1956, No 14, 100-106 Abstract: Description of a method of growing crystals of Rochelle salt with admixtures and of the study of the effects of admixtures of KAL (SO,), CuSO,, SrCl,, RbCl and LiCl on the external shape of the crystals, their dielectric constant and piezoelectric modulus. ì Card : 1/1 -42-

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B-5

Category: USSR / Physical Chemistry - Crystals

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29750

dyestuff. With high concentrations of the dyestuff its filtering action, and also the alteration of its aggregation state, distort the spectral distribution of PE. Analogous results were obtained with TH. In AgBr and THBr the PE is not sensitized by the dyestuffs. Adsorption of I_{α} vapor at stained and unstained AgI and TH results in a considerable increase of the natural as well as of the sensitized photoconductivity. The following mechanism of sensitizing is proposed: The iodine adsorbed at AgI and TH provides acceptor surface levels. Increase in photoconductivity occurs on liberation of electrons from these levels by the energy absorbed by the molecules of the dyestuff and transmitted into the crystal (semiconductor).

Card : 2/2

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| 30 (7) | SOV/31-59-8-11/17 | |
|-------------|--|---|
| AUTHOR: | Chormonov, T. Kh., Candidate of Physical and Mathematical | |
| TITLE: | The International Fedorov Session in Crystallography | |
| PERIODICAL: | Vestnik Akademii nauk Kazakhskoy SSR, 1959, Nr 8, pp 86 - 87 (US3R) | n References References References References |
| ABSTRACT : | From 21 to 27 May 1959 the International Fedorov Session in Crystallography was held at Leningrad. It was convened by the International Union of Crystallographers, the Natsional'- nyy komitet sovetskikh kristallografov (National Committee of Soviet Crystallographers), the Institut kristallografii AN SSSR (Institute of Crystallography, AS USSR) and the Lenin- gradskiy ordena Lenina i ordena Trudovogo Krasnogo znameni Gornyy institut (Leningrad Mining Institute of the Order of Lenin and the Order of the Red Banner of Labor). The work of the session was concentrated on two symposias: 1) crystal chemistry analysis and crystal chemistry; 2) electronic diff- raction. More than 500 scientists from 15 countries (USSR, | |
| Card 1/3 | China, Czechoslovakia, India, France, Great Britain, USA, | |

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| The Interna | SOV/31-59-8-11/17 tional Fedorov Session in Crystallography | |
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| | Netherlands, Australia, Norway, Switzerland, Canada, Germany, Japan and Brazil) participated. In the plenary session 20 very interesting reports were heard, characterizing the most important trends in crystallography, crystal chemistry, ro- entgenography and electronography during the last 3 years. The session heard the following Soviet reports: Academician <u>N. V. Belov</u> on "In memoriam of Ye. S. Fedorov" and "The Second Chapter of Crystal Chemistry of Silicates"; <u>B. N. Delone</u> on "The Theory of Reduction"; <u>I. I. Shafranovskiy</u> on "The Further Ways of Development of Crystal Chemistry Analysis"; <u>A. I.</u> Kitaygorodskiy on "Tensions and Conformations of Organic Moler | |
| Card 2/3 | cules"; <u>B. K. Vaynshteyn</u> on "Some Problems Concerning the Theory of <u>Structure Analysis</u> of Crystals"; <u>Z. G. Pinsker</u> on "Some Crystal Chemistry Problems of Induction Phases"; <u>Aca-</u> demician <u>A. V. Shubnikov</u> , Director of the Institute of Crystallography AS USSR, on "The Formation of Crystals". The author, a delegate of the International Fedorov Session, re- ports that during the last three years, achievements were made in the new crystallographic branches dealing with the investigation of the structure of viruses, antibiotics, | |
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| ACCESSION NR: | AR3010528 | BING BIOGS | 3/63/000/009/E039/E039 | |
| SOURCE: RZh. | Fizika, Abs. 9E303 | | | |
| AUTHOR: Chorm | onov, T. Kh. | | | |
| TITLE: Growth of spontaneous | of single crystal crystallization i | s and accelera n an ultrasoni | tion of the process c field | |
| CITED SOURCE: 1960, 271-283 | Sb. nauchn. tr. K | azakhsk. polit | ekhn. in-t, no. 21, | |
| TOPIC TAGS: C celeration of c cooling | rystal growth, sind growth, Rochelle sa | yle Crystals , alt, potassium | ultrasonic field, ac- aluminum alum, super- | |
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| ACCESSION NR: AR3010528 way that the face of the growing crystal was always in a standing- wave node. It is shown that ultrasonic oscillations of low inten- sity contribute to crystal growth. With increasing intensity, the dissolution of the crystals begins to predominate. Other conditions being equal, ultrasound accelerates the spontaneous crystallization in the supercooling region. G. Rogov. DATE ACQ: 140ct63 ENCL: 00 SUB CODE: PH | | | - menendeline et en | | |
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| <pre>way that the face of the growing crystal was always in a standing- wave node. It is shown that ultrasonic oscillations of low inten- sity contribute to crystal growth. With increasing intensity, the dissolution of the crystals begins to predominate. Other conditions being equal, ultrasound accelerates the spontaneous crystallization in the supercooling region. G. Rogov. DATE ACQ: 140ct63 ENCL: 00 SUB CODE: PH ,</pre> | • | | | | |
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| 85875 3.4.7.500 (1035, 1043) 9.2.181 (2303,3203) AUTHOR: <u>Chormonov, T. Kh.</u> TITLE: The <u>Influence Exerted by Ultrasonics</u> on Some Physical Properties of <u>Rochelle Salt Crystals</u> W PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 11, pp. 1347 - 1349 TEXT: The present paper is a reproduction of a lecture delivered on the <u>3rd Conference on Ferroelectricity</u> , which took place in Moscow from January 25 to 30, 1960. The physical properties of Rochelle salt and many other ferroelectrics change considerably under the action of external fields even if these are weak. The present paper contains a report con- cerning investigations of the action of ultrasonic fields upon the phy- sical properties. The crystals were grown in special thermostatically controlled (±0.05°C) crystallizers, and were exposed to ultrasonic irra- diation during growth; this was done by means of magnetostriction trans- formers at 21.5 ko/sec and a specific output of 2w/cm ² . The higher the ultrasonic intensity, the worse was the homogeneity of the crystals; Card 1/3 | | | | |
|---|--|--|---|--|
| AUTHOR: <u>Chormonov, T. Kh.</u> TITLE: The <u>Influence Exerted by Ultrasonics</u> on Some Physical Properties of <u>Rochelle Salt Crystals</u> <i>W</i> PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 11, pp. 1347 - 1349 TEXT: The present paper is a reproduction of a lecture delivered on the <u>3rd Conference on Ferroelectricity</u>, which took place in Moscow from January 25 to 30, 1960. The physical properties of Rochelle salt and many other ferroelectrics change considerably under the action of external fields even if these are weak. The present paper contains a report concerning investigations of the action of ultrasonic fields upon the physical properties. The crystals were grown in special thermostatically controlled (±0.05°C) crystallizers, and were exposed to ultrasonic irradiation during growth; this was done by means of magnetostriction transformers at 21.5 kc/sec and a specific output of 2w/cm². The higher the ultrasonic intensity, the worse was the homogeneity of the crystals; | · | | 85875 | |
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| AUTHOR: <u>Chormonov, T. Kh.</u> TITLE: The <u>Influence Exerted by Ultrasonics</u> on Some Physical Properties of <u>Rochelle Salt Crystals</u> \mathcal{N} PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 11, pp. 1347 - 1349 TEXT: The present paper is a reproduction of a lecture delivered on the <u>3rd Conference on Ferroelectricity</u> , which took place in Moscow from January 25 to 30, 1960. The physical properties of Rochelle salt and many other ferroelectrics change considerably under the action of external fields even if these are weak. The present paper contains a report con- cerning investigations of the action of ultrasonic fields upon the phy- sical properties. The crystals were grown in special thermostatically controlled ($\pm 0.05^{\circ}$ C) crystallizers, and were exposed to ultrasonic irra- diation during growth; this was done by means of magnetostriction trans- formers at 21.5 kc/sec and a specific output of 2w/cm ² . The higher the ultrasonic intensity, the worse was the homogeneity of the crystals; | 7,2181 (230 | 3,3203) | B006/B056 | |
| Properties of <u>Rochelle Salt Crystals</u> PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 11, pp. 1347 - 1349 TEXT: The present paper is a reproduction of a lecture delivered on the <u>3rd Conference on Ferroelectricity</u> , which took place in Moscow from January 25 to 30, 1960. The physical properties of Rochelle salt and many other ferroelectrics change considerably under the action of external fields even if these are weak. The present paper contains a report con- cerning investigations of the action of ultrasonic fields upon the phy- sical properties. The crystals were grown in special thermostatically controlled (±0.05°C) crystallizers, and were exposed to ultrasonic irra- diation during growth; this was done by means of magnetostriction trans- formers at 21.5 kc/sec and a specific output of 2w/cm ² . The higher the ultrasonic intensity, the worse was the homogeneity of the crystals; | | | 2 | |
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| <u>3rd Conference on Ferroelectricity</u> , which took place in Moscow from January 25 to 30, 1960. The physical properties of Rochelle salt and many other ferroelectrics change considerably under the action of external fields even if these are weak. The present paper contains a report con- cerning investigations of the action of ultrasonic fields upon the phy- sical properties. The crystals were grown in special thermostatically controlled $(\pm 0.05^{\circ}C)$ crystallizers, and were exposed to ultrasonic irra- diation during growth; this was done by means of magnetostriction trans- formers at 21.5 kc/sec and a specific output of $2w/cm^2$. The higher the ultrasonic intensity, the worse was the homogeneity of the crystals; | PERIODICAL: | • | - | skaya, 1960, |
| Card 1/3 | <u>3rd Conference</u> January 25 to many other for fields even in cerning invest sical propert controlled (<u>4</u> diation during formers at 21 ultrasonic in | ce on Ferroelectricity, o 30, 1960. The physical erroelectrics change con if these are weak. The p stigations of the action ties. The crystals were $\pm 0.05^{\circ}$ C) crystallizers, ng growth; this was done 1.5 kc/sec and a specifi | which took place in Most properties of Rochelle isiderably under the action present paper contains a of ultrasonic fields up grown in special thermo and were exposed to ult by means of magnetostr ic output of 2w/cm ² . The | scow from salt and on of external a report con- apon the phy- ostatically crasonic irra- ciction trans- e higher the |
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85875 The Influence Exerted by Ultrasonics on Some S/048/60/024/011/011/036 Physical Properties of Rochelle Salt Crystals B006/B056

thus, the crystals were exposed to only low sound intensities in the course of a very slow growth. Next, the microhardness was measured by means of a device of the type IMT-3 (PMT-3) at loads of 20-200 g. The microhardness of the crystals exposed to ultrasonic irradiation amounted to an average of 77 kg/mm², while those of crystals not exposed to ultrasonic irradiation were 58 kg/mm². \mathcal{E} and tan δ were measured by means of an electrometer of the type $C\Gamma$ -1M (SG-1M) and a Q-meter of the type KB-1 (KV-1). The results obtained are shown in Figs. 1 and 2. Finally, the influence exerted by ultrasonic irradiation upon the shape and intensity of the interference lines (X-cut) of the crystals was investigated. It was found that as a result of ultrasonic irradiation a broadening of the lines with simultaneous intensity decrease occurs. There are 3 figures.

ASSOCIATION: Kazakhskiy politekhnicheskiy institut <u>(Kazakh Polytechnic</u> <u>Institute</u>)

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| ACCESSION NR: AR3006319 | S/0056/63/00 | 00/007/E085/E085 | |
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| SOURCE: RZh. Fizika, Abs. 7E551 | | 54 | |
| AUTHOR: Chormonov, T. Kh. | | | |
| TITLE: Investigation of the struct | ture and <u>microhardr</u> | less of metals | |
| subjected to the action of ultrasou | <u>ina</u> / 4 | 10 | |
| CITED SOURCE: Sb. nauchn. tr. Kaza 1960, 170-178 | akhsk. politekhn. i | <u>n-t</u> , no. 21, | |
| FOPIC TAGS: ultrasonics, metal tre structure, aluminum, copper | eatment, microhardn | ess, fine | |
| TRANSLATION: An investigation was | made of the influe | nce cf ultra- | |
| sound on the fine structure and mic specimens were annealed at 300 and and subjected to the action of ultr | rohardness c: Al a 500°C, polished el | nd Cu. The ectrolytically. | |
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| 21.5 kcs and specific power 2 W/cm. After "sounding" the microhard- ness increased (by approximately 200 per cent) and the width of the smearing out of the x-ray interference lines increased; the inten- sity of the latter decreased. These effects are due to the crumbling of the block structure during the course of application of the ultrasound. M. Usikov. | |
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EWP(k)/EWI(m)/EWP(q)/DDS ASD/AFFTC L 19302-63 Pf-1 ACCESSION NR: AR3006907 JD \$/0137/63/000/007/I061/I061 SOURCE: RZh. Mctallurgiya, Abs. 71413 AUTHOR: Chormonov, T. Kh. TITLE: Investigation of the structure and microhardness of metals subjects to ultrasound CITED SOURCE: Sb. nauchn. tr. Kazakhsk. politekhn. in-t, no. 21, 1960, 170-178 TOPIC TAGS: structure, microhardness, aluminum, copper, strength, ultrasound TRANSLATION: The investigation was conducted on Al and electrolytic Cu. / Samples 10 x 10 x 0.15 mm and cylindrical samples 2 mm in diam. and 30 mm long were annealed at 300 and 500C for 2 hrs to remove stresses. After electropolishing, the samples were subjected to ultrasound treatment for 1-4 hrs. As a result of the ultrasound treatment, the microhardness of Al and Cu is increased from 26 and 60 to 37 and 125 kg/mm², respectively, for samples annealed at 300C. The increase in the hardness is related to a reduction of the dimensions of the mosaic blocks acted upon by ultrasound. X-ray diffraction studies of the change Card 1/2 1, 2 i est incluir

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| AUTHOR: Ch | ormonov, T. Kh. | | | | 41 |
| TITLE: Cav | itation and its i | nfluence on physical | . characteri | stics of <u>alumi</u> | num |
| SOURCE: Re | ef. zh. Fizika, Ab | s. 4Zh566 | | 42. 2.474.28 | nua |
| REF SOURCE: | Tr. Kazakhsk. p | olitekhn. in-ta, sb. | 25, 1965, | 44-53 | 10 |
| TOPIC TAGS: tion study | aluminum, cavit | ation, ultrasonic pr | operty, mic | rohardening, x | ray diffrac- |
| physical ch | aracteristics of | tigate the influence aluminum. Experimen | ntal data ar | e presented on | the linear |
| the time of ultrasound of aluminum subjected t increase in ence of cav structure a | of the losses in sounding. It is in the presence of a. An x-ray diffr to the influence of the width of bluy vitation. This is and microdistortion | weight of aluminum f shown that with inc of cavitation, an inc action investigation of cavitation is desc arring of the interfe attributed to the f ns of the structure inslation of abstract | reasing dur rease takes of the fin ribed. It rence lines festruction of aluminum | ation of the a place in the e structure of is shown that occurs under of the blocks | ction of the mic <u>rohardness</u> aluminum a noticeable the influ- of the mosaid |
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| AUTHOR: Cho | rmonov, T. Kh. | | B |
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| TITLE: Cavita | ation and its effect on the physical | l characteristics of aluminum | n i |
| | zh. Metallurgiya, Abs. 51323 | | |
| REF SOURCE: | Tr. Kazakhsk. politekhn. in-ta, | sb. 25, 1965, 44-53 | |
| ABSTRACT: T aluminum has dependence of the time of exp aluminum incr analysis of a th | cavitation, aluminum, aluminum The effect of <u>ultrasonic cavitation</u> been studied. Experimental facts weight losses of aluminum foils of osure to ultrasound. It was show eases with an increase in the dura in aluminum structure subjected effect of cavitation markedly incr | on the physical characterist were presented on the linear caused by cavitation erosion f on that the microhardness of ation of the ultrasound. Any to cavitation is described. | from c-ray It was |
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| | ACC NR. AP6032454 SOURCE CODE: UR/0129/66/000/009/0018/0020 | |
| | AUTHOR: Pogodin-Alekseyev, G. I.; Chormonov, T. Kh. 15 | |
| | ORG: <u>Special Design-Technological Bureau</u> (Osoboye konstruktorsko- | |
| • | TITLE: Investigation of the affect of ultrasound on alloy properties | |
| | SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 9, 1966, 18-20 and appropriate insert facing p. 49 | |
| | TOPIC TAGS: ultrasonic vibration, molten metal, metal crystallization, hardness, babbit metal, aluminum base alloy, zinc base alloy | |
| Y | ABSTRACT: The crystallization and structure formation in molten aluminum, zinc and <u>Bl6 babbitt</u> under the action of ultrasonic vibrations at an intensity of 15.6-39.8 w/cm ² for 20-60 sec have been investi- gated. It was found that ultrasonic vibration accelerated crystalliza- tion of the melts and greatly increased the number of crystallization centers. The latter brought about metal grain fragmentation and conse- quent improvement in the strength and hardness of metals. For example, the microhardness of aluminum increased from 26.7 to 53.0 after a 20-sec Card 1/2 UDC:: 669.065.5:620.17:621.789 | |
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| L 08291-67 ACC NR: AP6032454 treatment with ultrasound at an intensity of 15.6 w/cm ² . The micro hardness of zinc increased from 32.4 to 55.7 after 60-sec treatment with ultrasound at an intensity of 39.8 w/cm ² . The tensile streng of zinc increased from 7.4 to 9.3 kg/mm ² after treatment with ultra for 30 sec at an intensity of 18.0 w/cm ² . The maximum fragmentation of metal grains occurred with ultrasonic vibrations at an intensit 40 w/cm ² and a frequency of 22.5 kc. Analogous structure changes higher mechanical properties were observed in Bl6 babbitt after u sonic treatment. Orig. art. has: 1 figure and 1 table. | gth rasound ion ty of and |
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CHORNAYA, N.S. [Chorna, N.S.]; TERLETSKIY, B.S. [Terlets'kyi, V.S.]; SMETANKINA, N.P.; KUZNETSOVA, V.P. [Kuznietsova, V.P.] Mechanism underlying the conductivity of puropolysiloxanes. Ukr.fiz.zhur. 10 no.10:1150-1152 0 165. (MIRA 1981) 1. Institut poluprovodnikov AN UkrSSR i Institut khimii polimerov AN UkrSSR, Kiyev. Submitted May 28, 1965.

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CHORNIY, P.P. 3 Nitrogen content of the blood of long-horned cattle of different ages. A. A. Rukhel'man and P. P. Chornil Odessa Agr. Inst.). Ukrain. Biokhim. Zhur. 25, 310-14 (in Russian, 314-16(1953).—Total blood N in the embryo increases steadily from the 4th to the 9th month; it is still higher in adults. The protein N increases in the embryonic and postnatal stages, and drops in 10-15-year olds. Globu-lin N increases in all periods more rapidly than protein N. B. Gutoff Kafedra rozvedennya sil'e kohospodarc' kykh Tvaryn in

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VATHANICH, V.I. [Vaidanych, v.i.]; LYSKOVICH, A.B.; [Lyskovych, O.B.] CHORNIY, Z.P. Effect of thermal treatment on the spectrometric properties of NaI(T1) phosphors. Ukr. fiz. zhur. 6 no.5:714-716 S-0 '61. (MIRA 14:11) 1. L*vovskiy gosudarstvennyy universitet im. Iv.Franko. (Phosphors) (Spectrometry)

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42767 s/185/62/007/010/009/020 D234/D308 Vyshnevs'kyy, V. N., Lyskovych, O. B., Pidzyraylo, M.S. and Chornyy, Z. P. 24.3500 AUTHORS: Investigation of x ray luminescence of scintillators TITLE: NaI (T1)I Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 10, 1962, PERIODICAL: TEXT: Single crystals of NaI(T1), 2 - 3 cm thick and having a cross-section area of 2 cm², were investigated. The energy distribution graph shows a broad intense band with a maximum near 420 mu and a less intense one near 330 mu. If the activator concentration is smaller than 2.5 x 10^{-4} moles Tl/mole NaI the total intensity of Lo smaller man 2.9 x 10 moles Il/mole mai the total intensity of luminescence is proportional to it. Continuous irradiation for 17 hours decreased the luminescence intensity, which did not return to usual value after 30 hours. The authors evaluate this built of the usual value after 30 hours. The authors explain this by additional scattering of the excitation energy on lattice defects caused irre-versibly by irradiation. The authors thank Ya. M. Zakharko for 5/185/62/007/010/013/020 Card 1/2 1 SEE

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8/185/62/007/012/006/021 D234/D308 Vyshnevs'kyy, V.N., Lyskovych, O.B., Pidzyraylo, M.S. and Chorniy, Z.P. AUTHORS: Investigation of the dependence of x ray luminescene of NaI (T1) crystals on temperature and activator content TITLE: Ukrayins kyy fizychnyy zhurnal, v. 7, no. 12, 1962, 1292 - 1296 PERIODICAL: The activator content was 1 x 10 1.5×10^{-5} , 8×10^{-5} , 1.6×10^{-4} moles T1/mole NaI and 2% Til by weight in the melt. At 2700K there are two luminescence bands, with maxima near 302 mµ. With decreasing temperature the first maximum is displaced towards the shorter wavelengths. With 2% T1 only the second band is observed. The dependence of the integral energy on temperature varies with T1 concentration. The latter is attributed to the presence of luminescence centers in the case of large T1 content, Card 1/2

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VISHNEVSKIY, V.N. [Vyshnevs'kyi, V.N.]; LYSKOVICH, A.B. [Lyskovych, O.B.]; PIDZYRAYLO, N.S. [Pidzyrailo, M.S.]; CHORNIY, Z.P. [Chornii, Z.P.] Dependence of the roentgenoluminescence of NaI-Tl crystals on the temperature and activator content. Ukr. fiz. zhur. 7 no.12:1292-1297 D 162. (MIRA 15:12) 1. L'vovskiy gosudarstvennyy universitet im. Iv.Franko. (X-ray spectroscopy) (Sodium iodide crystals) (Luminescence) : -----

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| | : var me ssu | red with PM | T-3 instrum | ent. The | results hav | e shown tha | t single o | erys- |
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| <u>L 02192-67</u> EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) JD/JG/GG |
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| ACC NR: AR6031870 SOURCE CODE: UR/0058/66/000/006/D085/D085 |
| AUTHOR: Vaydanych, V. I.; Huseva, N. K.; Triska, T. Y.; Chorniy, Z. P. |
| TITLE: Effect of methods of growing alkaline iodide crystals on their luminescence properties \Rightarrow \mathcal{N} \mathcal{N} \Rightarrow \mathcal{H}_{G} |
| SOURCE: Ref. zh. Fizika, Abs. 6D695 |
| REF SOURCE: Visnyk L'vivs'k. un-tu. Ser. fiz., no. 2, 1965, 46-48 |
| TOPIC TAGS: crystal, crystal growth, anion impurity, iodide, iodide crystal, photo luminescence, x ray luminescence, crystal impurity, energy transmission |
| ABSTRACT: The effect of various anion impurities formed in a crystal during its growth (using the Kiropoulos and Stokbarger methods of growing crystals in an inert gas atmosphere), on the luminescence properties of phosphors NaJ-T1, KJ-T1, and CsJ-T1 is shown. A decrease in the output of photo and x-ray luminescence in crystals with anion impurities is explained by the assumption that the transmission of energy by T1 luminescence centers, both in the electron-hole and ex- citon excitation mechanism, takes place at a higher energy level (D-band, P1-transition). [Translation of abstract] [SP] |
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| ACCESSION NR: AP5009517 | S/0048/65/029/003/042 3/ 34 26 |
| AUTHOR: Lyskovich, A.B.; Chornly, Z.P.; | Guseva, N.K. 47 |
| TITLE Investigation of the roentgenolu outputted sodium iodid crystal publications and in Livov, 30 (an+5 Feb.) | BUSDIDES Janoth 19th C |
| SOULCE: AN SSSR. Izvestiya. Seriya fizic) TOPIC TACS: luminescence, lumirescent cry | |
| Spectra excited by 40 keV x-rays were reco | en because of the technical importance of for soft x-rays. The present work concerns llium content. Roentgenoluminescence orded at temperatures from 100 to 650°K cally), glow curves were recorded, and the re thermosticulated emission was curved |
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L 43915-65 ACCESSION NR: AP5009517 tion to the principal roentgenoluminescence emission band near 420 mg, a weak band was clearly observable at 330 m; even at the lowest temperature. This band increased in intensity with increasing temperature up to 450°K, and decreased in intensity with further increase of temperature. The peak of the principal emission band shifted toward the shorter wavelengths with increasing temperature, from about 430 mµ at 100°K to 400 mµ at 520°K. The roontgenoluminescence yield decreased rapidly with decreasing temperature in the region from 150 to 100° K; this is ascribed to self-trapping of holes. The yield decreased with increasing temperature above 400°K, owing to thermoquenching. Pive peaks were observed in the glow curve; these occurred at 120, 140, 160, 220, and 295°K. Only radiation of the thallium luminescence band with a peak at 420 mg contributed to the two lowest temperature peaks of the glow curve. Of the three low temperature glow curve peaks, only one appeared in crystals grown in an inert gas atmosphere. From the effect of low temperature x-ray irradiation on the behavior of the 295°K glow curve peak it is concluded that the trapping centers that are responsible for this radiation, and thus adversely afflect the scintillation properties of the phosphor, may be due to radiation (and other) damage to the crystal. Orig. art. has: 5 Card submitted 00

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| | 0299-00 EWT(1)/FUT(m)/FUT(4)/m-(-) |
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| 10 | ACC NR: AP5028922 |
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| | B.; Chorniy, Z. P Chorniy, Z. P. |
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| | ORG: L'voy State University |
| 1 | ORG: L'vov State University im. I. Frank (L'vivs'kyy derzhuniversytet) |
| | TITLE: Investigation of energy migration in CsI and CsI(Tl) crystals |
| | Surface of energy migration in CsI and CsI(Tl) crystals |
| | SOURCE: Ukrayins'kyy fizychnym alway |
| | SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 11, 1965, 1215-1221 TOPIC TAGS: luminescence, luminescence spectrum, luminescent crystal, activated crystal, crystal defect, crystal lattice vacancy, X ray amiasion for all |
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| · | crystal, crystal defect, crystal lattice vacancy, X roy amission, free electron, EPR, every theory ABSTRACT. |
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| | ABSTRACT: An investigation was made of the dependence of the spectral composition and the yield of x-ray luminescence of pure CSI crystals and crystals activated with TII, tals at room temperature in the range from 100 to 300K. In properties with TII, |
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| | attributed to structural distortion of the crystal or distortion of the stoichiometry of the crystal. The decrease of the luminescence yield of the 320 and 420 nm bands |
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was due to the absorption of energy in the lattice by other low-temperature luminescence centers such as auto-localized holes. Recombination of a free electron with an auto-localized hole apparently produced the luminescence in the region of 347 nm. This interpretation does not contradict the generally accepted hypothesis that excitation of the 347 nm band has an exciton character, since at low temperatures excitons can disintegrate into free electrons and auto-localized holes. electron paramagnetic resonance in alkali hallide crystals showed that the thallium ion at low temperature can capture an electron and thus produce a quasi-atomic thallium. At low temperature the number of free holes decreased, due to auto-localization, and the yield of the luminescence decreased while the lattice luminescence in the 347 nm region increased. With the rise of the activator concentration the number of auto-localized holes sharply increased, causing a still larger decrease of activated luminescence. The luminescence in the region of 347 nm does not appear because of the small concentration of free electrons resulting from capture by the activator SUB CODE: 20/ SUBM DATE: 15Dec64/ ORIG REF: CO7/ OTH REF: [JA] ATD PRESS: 4149 010/

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| ACC NR: AP5022 | المراجعين المراجع ال | IJP(c) JD/JG SOURCE CODE: UR | 0051/65/019/003/0446/0446 |
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| AUTHOR: Chorni | y, Z. P.; Lyskovich, A. | B. | 42 |
| ORG: None | | | 1. WIL 5 C |
| TITLE: The dep sity of the exc | endence of the spectral iting radiation | composition of radio | <u>pluminescence</u> on the inter |
| SOURCE: Optika | i spektroskopiya, v. 19 | , no. 3, 1965, 446-4 | 48 |
| TOPIC TAGS: re lation, sodium | dioluminescence, lumines compound, cesium compound | cence center, lumino d, x ray irradiation | scence spectrum, scintil- |
| to luminescence radioluminescen method. The me ranged from 5 meter provided study showed th lensity of the pure lattice em tion of pure la luminescence of | centers, the authors in ce of NaI(T1) and CsI(T1) lt was doped with 0.30 1500 r/sec. The lumines with a photoelectric alto at the spectral distribut x-ray excitation. With ission in the total radio ttice luminescence at low the crystal. At high es | vestigated the spect) scintillators grow .5 wt.% of thallium. cence was measured w achment and an FEU-1 tion of the radiolum increasing x-ray int cluminescence increas w excitation density incitation density it | m by a modified Kiropoulo The x ray excitation ith an SF-4 spectrophoto- 8 photomultiplier. The inescence depends on the ensity, the fraction of ses. In NAI(T1) the frac is 10% of the total radi is 22%. The corres- results are interpreted 1 |
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