SOV/78-4-10-39/40

TITLE: Investigation of the Extraction of Metal Output to Benzoyl Acetone in Benzene PLRIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 10, pp 2412 - 2413 (USSR) ABSTRACT: In previous papers (Rers 1-3) it was proved that it is possible to predict the extraction conditions for metal salts. For the determination of the pH which must be maintained for the ex- determination of 50% metal by a 0.1-molar solution of benzoyl acetone in benzene, the formula $(pH_1)_{0.1}=12.9-\frac{1}{N}\log K_N^Q$ is established (N=charge of the metal cation, K_N = stability constant of the non-charged complex compound, Q= partition coefficient of the complex compound between organic and aqueous phase). The correct- ness of the values predicted for $(pH_1)_{0.1}$ is now confirmed in the extraction of La, Eu, Sc, and Fe with benzoyl acetone from acetate buffer solution. The metals to be extracted were	5(2) . AJTHOR:	Stary, I.
ABSTRACT: In previous papers (Reis 1-3) it was proved that it is possible to predict the extraction conditions for metal salts. For the determination of the pH which must be maintained for the ex- determination of 50% metal by a 0.1-molar solution of benzoyl acetone traction of 50% metal by a 0.1-molar solution of benzoyl acetone in benzene, the formula $(pH_1)_{0.1}=12.9-\frac{1}{N}\log K_NQ$ is established (N=charge of the metal cation, K_N = stability constant of the non-charged complex compound, Q= partition coefficient of the complex compound between organic and aqueous phase). The correct- ness of the values predicted for $(pH_1)_{0.1}$ is now confirmed in the extraction of La, Eu, Sc, and Fe with benzoyl acetone	TITLE:	Stary, 1. Investigation of the Extraction of Metal Salts by Solutions of Benzoyl Acetone in Benzene
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		In previous papers (Reis 1-3) it was proved that it is point to predict the extraction conditions for metal salts. For the determination of the pH which must be maintained for the ex- determination of 50% metal by a 0.1-molar solution of benzoyl acetone traction of 50% metal by a 0.1-molar solution of benzoyl acetone in benzene, the formula $(pH_1)_{0.1}=12.9-\frac{1}{N}\log K_N^Q$ is established $\frac{1}{2}$ (N=charge of the metal cation, $K_N^=$ stability constant of the non-charged complex compound, Q= partition coefficient of the complex compound between organic and aqueous phase). The correct- ness of the values predicted for $(pH_1)_{0.1}$ is now confirmed $\frac{1}{2}$

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SOV/78-4-10-39/40 Investigation of the Extraction of Metal Salts by Solutions of Benzoyl Acetone in Benzene

labelled with La¹⁴⁰, Eu¹⁵², Sc⁴⁶, Fe⁵⁶. The results and the previous data of the extraction of Y, In, Cd, Sr, and Ba are given in figure 1. They are in good agreement with the calculated values in the cases of La and Eu and show small deviations in Sc and Fe. Since the organic phase of Fe-benzoyl acetonate is of orange color, whereas most of the metal-benzoyl acetonates are colorless, the extraction of Fe with this reagent could be used for the colorimetric determination of Fe in the presence of other metals. There are 1 figure and 7 references, 3 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut yadernoy fiziki Mcskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova, Laboratoriya radiokhimii (Scientific Research Institute of Nuclear Physics of the Moscow State University imeni M. V. Lomonosov, Laboratory of Radiochemistry)

October 9, 1958 SUBMITTED:

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	ACCESSION NR: AT4035418	
	AUTHOR: Stary*, 1.	
	 AUTHOR: Stary v TITLE: An Integrating magnetic amplifier TITLE: An Integrating magnetic amplifier SOURCE: Vsesoyuznoye soveshchaniye po ferritam i po beskontaktny*m magnitny*m selementam avtomatiki. 3d, Minsk. Ferrity* i beskontaktny*ye elementy* (Ferrites elementam avtomatiki. 3d, Minsk. Ferrity* i beskontaktny*ye elementy* (Ferrites 265-274 TOPIC TAGS: amplifier, magnetic amplifier, integration, positive feedback, multicascade amplifier ABSTRACT: The author discusses the theory and uses of a magnetic affection: direct inployed as an integrator. All three basic varieties of integration: direct inployed as an integration with compensation parameters (with positive feedback), and integration with negative feedback, can be accomplished with the use of a magnetic amplifier. By introducing a positive feedback, an ideal integrator and integration with negative feedback, can be accomplished with the use of a magnetic amplifier. By introducing a positive feedback, an ideal integrator and integration with negative feedback, an ideal integrator and preserves a be obtained which possesses an infinite current amplification and preserves a be ficial integral value as long as the input equals zero. Employing a negative feedback, capacity feedback, another type of integrating magnetic amplifier may be obtained value as long as the input equals zero. 	ne-
	capacity feedback, another type	
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AUTHOR: Knoblokh, V.; Stary, I.		51
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TITLE: Use of complexon 111, An the radi	Lonie Lifie determine cient of	
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SOURCE: Zhurnal analiticheskoy khimii,	v. 20, no. 11, 1965, 1160-1163	
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THERE'RE N. V. .. LYODIN, V.M.; STREY, J.B.; VAYMENTERN, L.Y.

Lootosensitivity of some somiconductor layers in the X-ray region of spectrum. Izv. SO AN SSSR no.3 Ser. khim. nauk no.1:124-125 '65. (MIRA 18:8)

1. Institut neorganicheskov khirii Sibirskigi otdaleniya 20. SIGR, Novosibirsk.

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THINY	: USSR/Optics - X-rays	к-8
Abs Jour	: Ref Zhur - Fizika, No 1, 1957 No 2576	
Author Inst	: Vaynshteyn, E.Ye., Stary, I.B., Bril', M.N. Inst. of Geochemistry and Analyt. Chem, Acad. of Sciences USSR, Odess	a. ກຳໜາ
Title	 Pedagogical Inst., USSR Fins Structure of the Fundamental X-Ray K Absorption Spectrum of Tita in Certain Dielectric Materials 	
Orig Pub) : Dokl. AN SSSR, 1955, 105, No 5, 943-946	
Abstract	A focusing vacuum spectrograph of high resolution was used to study the fine structure of the X-ray K absorption edge of Ti in rutile, brooks anatase, perovakite, ilmenate, and metallic Ti. A quartz analyzer was The reflecting planes were (10TT). The bending radius of the crystal 2545. The crystal was bent at four points. The dispersion of the in was 2.5 X / mm. The current was 50 mm at 11 kv. The anode was gold density of the material in the absorbers was 6 13 mg/cm ² . The experimentally-observed difference in the fine st the edge of Ti absorption in the metal and in the compounds is inter on the basis of the theoretical concepts developed by one of the aut an earlier work (Barinskiy R.L., Vaynshteyn, E.Ye., Narbutt, D.I., D. SSSR, 1952, 83, 199; Vaynshteyn E: Me., Narbutt, K.I., Barinskiy, R.I. AN SSSR, 1952, 82. 701).	L was nstrument . The posure was ructure of preted hors in okl. AN
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USSR/Physical Chemistry - Crystals, B-5 Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60906 Abstract: basis of theoretical notions developed previously (Barinskiy, R. L., Vaynshteyn, E. Ye., Narbut, K. I., Dokl. AN SSSR, 1952, 83, 199; Dokl. AN SSSR, 1952, 82, 701). Card 2/2

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STARYY.	T. B. Vaynshteyn, E. Ye., Bril', M. N., Staryy, I. B. 20-4-14/52	
AUTHORS:	Vaynshteyn, 2.	
ŢITLE:	K -emission Dreakh v strukture rentgenove	· · · · ·
PERIODICAL:	Doklady AN SSSR, 1957, Vol. 117, Hr 4, Provide the Solution of the K_{β} -group of	• • •
ABSTRACT :	The authors investigated the lines of the κ_{β} -group titanium in the X-ray emission spectra of this element in brookite, anatase and in titanates of Mg, Ca, Sr, Ba, Fe, brookite, anatase and in titanates the monotitanates and and Zn. From the barium titanates the monotitanates and tetratitanates (Ba0.TiO ₂ and Ba0.4 TiO ₂) were investigated. Erief reference is made to the structure of the various Brief reference is made to the structure of the various a focussing X-ray tube spectrograph with a quartz crystal a sanalyzer. The prism faces served as reflecting surfaces. The spectra were photographically registered. The authors The spectra were photographically registered. The authors investigated the position, the form, and the relative intensities of the lines κ_{β} , κ_{β} , κ_{β} , and κ_{β} , of titanium	
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K - emission b	Governing the Structure of the X-ray pectra of Titanium in Titanates in the above-mentioned compounds. The maxima of the lines in the above-mentioned compounds. The maxima of the lines κ_{β_1} and κ_{β_5} of titanium were slightly displaced towards the longwave side with all compounds compared with their position in the spectrum of the metal. The energetic position, the in the index of asymmetry of the emission-lines of width and the index of asymmetry of the emission-lines of width and the suffer any substantial changes in the titanium do not suffer any substantial changes in the various compounds. The same holds also for the satellites	
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SUBMITTED: Card 2/3	June 11, 1957	
		

On Some Rules Governing the Structure of the X-ray K - emission Spectra of Titanium in Titanates

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CIA-RDP86-00513R001653010008-7 "APPROVED FOR RELEASE: 08/25/2000 STARY, Irahi, Cand Chem Sci -- (diss) "Extraction of Radio Active Isotopes in the form of Complexes with Beta--Diketons." Mos, 1958. 8 pp, (Mos State Univ im M. V. Lomonosov), 150 copies (KL 40-58, 113) beta-dubetoner 10

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They, I. SOV/1900 PHASE I BOOK EXPLOITATION Akademiya nauk SSSR. Komissiya po analiticheskoy khimii 5(2); 21(5) Primeneniye radioaktivnykh izotopov v analiticheskoy khimii (Use of Radioactive Isotopes in Analytical Chemistry) Moscow Izd-vo An SSSR, 1958. 366 p. [Series: <u>Its</u>: Trudy, t. 9 (12)] Errata slip inserted. 3,000 copies printed. Resp. Ed.: I.P. Alimarin, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: A.N. Yermakov; Tech. Ed.: T.V. Polyakova. PURPOSE: The book is intended for chemists and chemical engineers concerned with work in analytical chemistry. COVERAGE: The book is a collection of the principal papers presented in Mozcow at the Second Conference on the Use of Radioactive Isotopes. The problems discussed at the Conference included connecipitation, aging, and solubility of precipitates, determination of the instability constants Card 1/10

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Use of Radioactive Isotopes (Cont.) SOV/1900 of complex compounds, separation of rare earth metals, ion-exchange chromatography. No personalities are men There are 351 references, 175 of which are Soviet, 33 0 19 French, 3 Swedish, 2 Hungarian, and 2 Czech.	and tioned. erman,
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Coefficient Between Some Organic Solvents and the Aqueous Phase (Konstanta dissotsiatsii benzoilatsetona i koeffitsiyenty raspredeleniya yego mezhdu nekotorymi organicheskimi rastvoritelyami i vodnoy fazoy) PERIODICAL: Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 4, pp 624-629 (USSR) ABSTRACT: The dissociation constant of benzoyl acetone and its distribution coefficient between benzene, chloroform and carbon tetrachloride (organic phase) and the acetate buffer solutions (aqueous phase) were determined at 20 [±] 0.1°. The optical density and the spectra of benzoyl acetone were measured by means of the spectrophoto- meter SF-4 with hydrogen lamp. The dissociation constant of benzoyl acetone, as determined according to the spectrophoto- metric method, is pK _{HA} =8.74. The dissociation constant according to the solubility method is pK _{HA} =8.725. The distribution	AUTHORS:	Stary, I., Rudenko, N. P.	sov/156-58-4-4/49
tekhnologiya, 1958, Nr 4, pp 624-629 (USSR)ABSTRACT:The dissociation constant of benzoyl acetone and its distribution coefficient between benzene, chloroform and carbon tetrachloride (organic phase) and the acetate buffer solutions (aqueous phase) were determined at 20 \pm 0.1°. The optical density and the spectra of benzoyl acetone were measured by means of the spectrophoto- meter SF-4 with hydrogen lamp. The dissociation constant of benzoyl acetone, as determined according to the spectrophoto- metric method, is $pK_{HA}=8.74$. The dissociation constant according to the solubility method is $pK_{HA}=8.725$. The distribution	TITLE:	Ccefficient Between Some Organic (Konstanta dissotsiatsii benzoila raspredeleniya yego mezhdu nekota	Solvents and the Aqueous Phase atsetona i koeffitsiyenty
coefficient between benzene, chloroform and carbon tetrachloride (organic phase) and the acetate buffer solutions (aqueous phase) were determined at 20 \pm 0.1°. The optical density and the spectra of benzoyl acetone were measured by means of the spectrophoto- meter SF-4 with hydrogen lamp. The dissociation constant of benzoyl acetone, as determined according to the spectrophoto- metric method, is $pK_{HA}=8.74$. The dissociation constant according to the solubility method is $pK_{HA}=8.725$. The distribution	PERIODICAL:		
	ABSTRACT;	coefficient between benzene, chlo (organic phase) and the acetate b were determined at 20 \pm 0.1°. The of benzoyl acetone were measured meter SF-4 with hydrogen lamp. Th benzoyl acetone, as determined ac	buffer solutions (aqueous phase) e optical density and the spectra by means of the spectrophoto- ne dissociation constant of ccording to the spectrophoto-
Card 1/2 coefficients of benzoyl acetone between chloroform, benzene,		to the solubility method is pK_{HA}	=8.725 . The distribution
	Card 1/2	coefficients of benzoyl acetone b	between chloroform, benzene,

A. Hellowick, Allowick and Allowick Statistical Statistical Statistics

	carbon tetrachloride and acetate buffer solutions at pH ≤ 6 are given in table 3. The dependence of the distribution coefficien of benzoyl acetone between benzene and the aqueous phase on th pH-value shows that in the range of pH=1,5% to 6 the quantity q _{HA} is constant. At pH > 6 the quantity q _{HA} decreases.
	The decrease of the quantity q _{HA} is caused by the dissociation of benzoyl acetone. The dissociation constant of benzoyl aceto
	is calculated by varying q_{HA} : $pK_{HA} = 8.7$. There are 2 figures, 3 tables, and 10 references, 1 of which is Soviet.
ASSOCIATION:	Institut yadernoy fiziki pri Moskovskom gosudarstvennom universitete im. M. V. Lomonosova (Institute of Nuclear Physics at the Moscow State University imeni M. V. Lomonosov)
SUBMITTED:	April 1, 1958
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RUDENKO, N.P.; STARY, I.

Extraction method for determining constant of complexing of indium acetylacetonate. Trudy kom.anal.khim. 9:28-43 '58. (MIRA 11:11) (Extraction (Chemistry)) (Indium organic compounds) (Complex compounds)

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CIA-RDP86-00513R001653010008-7

s/123/61/000/014/045/045 A004/A101

Staryy, I.B. AUTHOR:

New vacuum cock design TITLE:

Referativnyy zhurnal. Mashinostroyeniye, no. 14, 1961, 21, abstract PERIODICAL: 14Kh134 ("Nauchn. zap. Fiz.-matem. fak. Odessk. gos. ped. in-t", 1958, v. 22, no. 1, 95 - 96)

The author describes the design of a two-position bellowless vacu-TEXT: um valve which ensures a good sealing and a high capacity at a practically unlimited service life. The advancing displacement of the rod of the given design is not limited by bellows, as it is the case with the prevailing valves. Therefore, the new valve possesses a considerable capacity. The cocks were tested at the X-ray spectrum laboratory of the Odesskiy pedagogicheskiy institut (Odessa Pedagogical Institute) and the results were fully satisfactory. There are 2 figures.

0. Tolkova

[Abstracter's note: Complete translation]

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	24(7) • AUTHORS:	SOV/20-122-2-10/42 Vaynshteyn, E. Ye., Bril', M. N., Staryy, I. B.
1	TITLE:	The Fine Structure of the X-Ray Absorption K-Spectra of Titanium in Titanates (Topkaya struktura rentgenovskikh K-spektrov pogloshcheniya titana v titanatakh)
	PERIODICAL:	Doklady Akademii nauk SSSR, 1958, Vol 122, N _r 2, pp 201-203 (USSR)
	ABSTRACT:	In a previous paper the fine structure of the X-ray emission K-spectra of titanium in the titanates of Mg, Ca, Ba, Sr, Fe, Zn was investigated. This paper gives results concerning the absorption K-spectra of titanium in the same titanates. These spectra were investigated by means of a focussing X-ray tube spectrograph with a curved quartz crystal. The investigations were carried out by means of absorbers of various thickness (3 - 14 mg/cm ²). The short-wave structure of the edge appears most clearly and without distortions.in the spectra of thin absorbers. The intensity then decreases and the structure of the long-wave group of the absorption lines appears, but only faintly. In the spectra of thick ab- sorbers, the succession is reversed. The most favorable thick-
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SOV/20-122-2-10/42 The Fine Structure of the X-Ray Absorption K-Spectra of Titanium in Titanates ness of the absorbers was \sim 5 mg/cm². The absorption spectra found for titanium, for the above mentioned titanates, and for rutile (TiO₂) are represented in some diagrams. From these experimental results the following conclusions may be drawn: ` 1) The X-ray absorption spectra of titanium in titanates are characterized by a distinct fine structure which has many fluctuations. The shape of this fine structure depends on the type of the crystal structure, on the characteristic features of the chemical bonds in the compound, and on the polarization state of the titanium atoms and oxygen atoms in this compound. The edge of the absorption of titanium in ZnTiO, has the simplest shape. 2) In the X-ray absorption spectra of titanium in compounds which have a crystal stature of the ilmenite type (FeTiO₂, MgTiO₂), the shape of the long wave absorption band and the point of its maximum (with respect to the energy) remain the same as in the spectra of ZnTiO3. However, the fine structure of the short-wave region of the absorption edge has a more complicated structure. 3) In the absorption spectra of titanium in rutile and in compounds of the structure of the perkovskite type, a splitting Card 2/4

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SOV/20-122-2-10/42 The Fine Structure of the X-Ray Absorption K-Spectra of Titanium in Titanates up of the long wave band into a doublet is observed. The structure of the principal absorption edge of titanium in compounds of the perovskite type only slightly depends on the nature and on the dimensions of the kation, but it depends to a considerable extent on the polarization of the atoms in the investigated compound. The positions of the centers of gravity of the complicated (with respect to the structure) absorption bands of titanium in BaTiO, corresponds approximately to the position of the absorption maxima of the spectrum of titanium in barium tetratitanate. Finally, the authors compare their interpetation of the above-discussed facts with the interpretation given by M. A. Blokhin (Ref 4). There are 4 figures and 4 references, 4 of which are Soviet. Institut geokhimii i analiticheskoy khimii im. V. I. Ver-ASSOCIATION: nadskogo Akademii nauk SSSR (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR) Card 3/4

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24(7) AUTHORS:	SOV/20-122-3-11/57 Vaynshteyn, E. Ye., Staryy, I. B., Zhurakovskiy, Ye. A.
TITLE:	The Fine Structure of the X-Ray Absorption K-Spectra of Titanium in Carbides (Tonkaya struktura rentgenovskikh K- spektrov pogloshcheniya titana v karbidakh)
PERIODICAL:	Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 3, pp 365-366 (USSR)
ABSTRACT :	In the papers hitherto published, the fine structure of the X-ray K-emission spectrum of titanium, and of the L-absorption spectrum of molybdenum in carbides and in some other compounds were investigated. This paper gives data on the absorption K-spectra of titanium in alloys of the system Ti-C which contain 12 - 24 weight % of carbon. The measurements were carried out by means of a focusing X-ray tube spectrograph, and the spectra were recorded photographically. The found spectra (which are the average results of 6 independent measurements) are shown by a diagram. The same figure shows the positions of the last K_{β} and K_{β} "
Card 1/2	titanium in the same alloys, and also the position and the

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	shape of the long-wave absorption band. In the second diagram the X-ray absorption spectrum of titanium in carbide is com- pared with the spectrum of this element in dioxide (rutile). The fine structure of the absorption spectra of titanium in carbides remains constant in the entire interval of the carbon concentrations in which there is a one-phase region with a face-centered cubic lattice of metal atoms. Also the position and the shape of the long-wave band in the absorption spectrum of titanium in the investigated group of alloys remain con- stant. There are 2 figures and 7 references, 7 of which are Soviet.
ASSOCIATION:	Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo Akademii nauk SSSR (Institute of Geochemistry and Analytical Chemistry imeni V.I.Vernadskiy, Academy of Sciences, USSR) Odesskiy pedagogicheskiy institut im. K.D. Ushinskogo (Odessa Pedagogic Institute imeni K. D. Ushinskiy)
PRESENTED:	May 19, 1958, by A. P. Vinogradov, Academician
SUBMITTED: Card 2/2	May 15, 1958

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RUDENKO, N.P.; STARY, I.

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Method for separating radioactive isotopes without a carrier. Part 5: Indium and cadmium benzoylacetates and the extraction method for separating radioactive isotopes of indium by means of benzoylacetate. Radiokhimiia 1 no.1:52-59 '59.

(MIRA 12:4) (Indium--Isotopes) (Cadmium--Isotopes) (Acetic acid)

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研究合作

RUDENKO, N.P.; STARY, I. Methods of separating radioactive isotopes without a carrier. Part 9: Separation of radioactive isotopes by extracting them in the form of *B*-diketonates. Radiokhimiia 1 no.6:700-705 '59. (MIRA 13:4) (Ketones) (Radioisotopes) (Extraction(Chemistry)) (MIRA 13:4) \mathcal{F}_1 . 4 学)是自己的关系的生长的生长。 的第一日 经济 医子子 化 **这一方面在一种**的 · 注意:《· 1.4.4. 》:《· 1.6.2. 344 T.

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18(7) AUTHORS:	SOV/78-4-1-47/48 Vaynshteyn, E. Ye., Zhurakovskiy, Ye. A., Staryy, I. B.
' TITLE:	On Some Re sults of the X-Ray Spectral Analysis of the Physical Nature of the Intrusion Phase s (O nekotorykh rezul'tatakh rentgenospektral'nogo issledovaniya fizicheskoy prirody faz vnedreniya)
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 1, pp 245-246 (USSR)
ABSTRACT:	The X-ray-K-absorption spectra of titanium in nitrides, in alloys of the system Ti-C with carbon contents of 9 to 24 wt %, in three hydrides with a hydrogen content of 1, 2, and more than 3 wt %, and in titanium diboride (TiB ₂) were investigated. Some of the regults are shown in figures 1 and 2. The ⁱ X-ray absorption spectra of titanium in hydrides of various hydrogen contents have a different fine structure. The reciprocal effect of the transition metal and the nonmetal in hydrides differs qualitatively from the reciprocal effect in carbides and nitrides. The X-ray absorption spectra of titanium in titanium diboride are very complicated; this is probably caused by the complicated crystalline structure of this compound. In order
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SOV/78-4-1-47/48 On Some Results of the X-Ray Spectral Analysis of the Physical Nature of the Intrusion Phases to explain the physical nature of the binding forces in the borides, further systematic investigations are required. There are 2 figures and 12 references, 7 of which are Soviet. ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo Akademii nauk SSSR; Odesskiy pedagogicheskiy institut im. K. D. Ushinskogo (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy of the Academy of Sciences, USSR; Odessa Pedagogical Institute imeni K. D. Ushinskiy) SUBMITTED: June 4, 1958

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AJTHUAS:	Stary, I., Rudenko, N. P. S0V/78-4-10-37/40
TITLE:	Benzoyl Acetonates of Yttrium and Strontium and a Method of Extractive Separation of Yttrium by Means of Benzoyl Acetone
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 10, pp 2405 - 2409 (USSR)
ABSTRACT;	In previous papers (Refs 1,2) the authors were the first to point cut the possibility of predicting the conditions for the extraction of metals in the form of complexes with organic reagents. They established the equation $\left(\frac{pH_1}{1}\right)_{1.0} =$
	$= (pK_{HA} + \log q_{HA}) - \frac{1}{N} \log Q - \frac{1}{N} K_{N} = -\frac{1}{N} \log K (1) \left(\frac{pH_{1}}{2} \right)_{1.0} = pH_{1.0}$
	for the extraction of 50% of the metal by an monomolar solution of the reagent in the organic solvent; K_{HA} = dissociation consta
	of the reagent; q _{HA} = Partition coefficient of the reagent be-
Card 1/3	tween water and organic phase; Q=partition coefficient of the non-charged complex compound between organic and aqueous phase,

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Benzoyl Acetonates of Yttrium and Strontium and a Method SOV/78-4-10-37/40 of Extractive Separation of Yttrium by Means of Benzoyl Acetone

 $K_{\rm N}^{=}$ stability constant of the non-charged complex; K= extraction constant of the cation]. In the present paper the correctness of the predicted value of $(pH_1)_{1.0}$ for the extraction

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without carrier of yttrium⁹⁰ is confirmed. The formation of inner complex Y-salts with benzoyl acetone and their extraction with carbon tetrachloride, benzene and chloroform was investigated. The yttrium chloride was labelled with Y90 or Y91. Figure 1 gives the experimentally obtained data for logq, figure 2 the degree of the extraction in dependence on the pH. The complex compound extracted by the organic solvent corresponds to the formula $Y(C_6H_5COCHCOCH_3)_3$. According to the method of D. Dyrssen and Sillen (Ref 3) the stability con-

stants of the yttrium-benzoyl acetonate were determined (Table 2). On the basis of these data a method could be devised to separate the radioactive Y^{90} without carrier. As can be seen from figure 2, more than 99.9% Y can be extracted by means of

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Benzoyl Acetonates of Yttrium and Strontium and a Method SOV/78-4-10-37/40 of Extractive Separation of Yttrium by Means of Benzoyl Acetone 0.100 mole benzoyl acetone, dissolved in CHCl₃, C₆H₆ or CCl₄ at pH N/9. As is shown in figure 5, the decomposition of the extracted yttrium⁹⁰ corresponds to a high purity of the prepa-

ration (more than 99.99%). There are 5 figures, 2 tables, and 12 references, 4 of which are Soviet.

SUBMITTED: September 24, 1958

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STARYY, I.B.; TSUKERMAN, V.G.; VAYNSHTEYN, E.Ye.

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Study of the dark background of cadmium sulfide photoresistors used as transducers in recording weak X rays. Nauch. zap. Od. ped. inst. 25 no.2:71-73 '61.

(MIRA 18:2)

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STARTY, 1.B.; ANDECHITEVSKIY, G.K.

Crystal holder for precision bending of crystalline plates. Nauch. zap. Od. ped. inst. 25 no.2:105-107 '61. (MIRA 18:2)

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CIA-RDP86-00513R001653010008-7

86047 s/020/60/135/003/033/039 1521,1449 181215 B004/B060 **AUTHORS**: Vaynshteyn, Z. Ye., Zhurakovskiy, Ye. A., and Staryy, I. B. X-Ray Spectrum Analysis Vof Titanium Beryllides 2 TITLE: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 3, PERIODICAL: pp. 642 · 644 TEXT: The authors refer to the obscure points found in literature concerning atomic interaction in beryllides of transition metals. They wanted to clarify this problem by studying the fine structure of X-ray spectra of titanium beryllides. The specimens were, besides pure titanium metal, TiBe and TiBe, prepared by the Institut metallokeramiki i spetssplavov AN USSR (Institute of Powder Metallurgy and Special Alloys of the AS UkrSSR) and placed at the authors' disposal by G. V. Samsonov. The apparatus used for the X-ray spectrum analysis had been described in Refs. 8,9. Both the fine structure of the absorption spectrum (exposure 4.6 h at 15 kv. 40 ma) and the fluorescence spectrum (fine structure of the K $\beta_{\rm c}$ line) (exposure 20-40 h, 15 kv, 70 μa) were photographed. A shift Card 1/c

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X-Ray Spectrum Analysis of Titanium Beryllides

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of the $K\beta_5$ line, as well as of points m and A of the edge of the absorption band was observed in beryllides, as against the Ti spectrum. Fig.! illustrates this shift, taking the position of the $K\beta_5$ line in pure titanium as the zero point of graduation. The relative position of

Kβ _{5max}	m	A	
T: 0	6.7 0.2	17.8 0.5	
TiBe 3.8 0.2	7.5 0.2	23.0 0.3	
TiBe ₂ 3.8 0.2	7.2 0.2	22.6 0.3	

these points on the energy scale (ev) is shown in Table 2: The experimental data are indicative of a metallic character of titanium beryllides, the valence electrons being common to both atoms. The donor-acceptor interaction between 3d electrons of Ti and 2s electrons of beryllium is bound to be small. There are 1 figure, 2 tables, and 9 references: 5 Soviet and 4 German.

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	X-Ray Spectru Beryllides	m Analysis of Titanium S/020/60/135/003/033/039 B004/B060
•	ASSOCIATION:	Institut geokhimii i analiticheskoy khimii im.
•		V. I. Vernadskogo Akademii nauk SSSR (Institute of
	·	Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy of the Academy of Sciences USSR).
	i	Udesskiy pedagogicheskiy institut im. K. D. Ushinskogo
	1	(Odessa Pedagogical Institute imeni K. D. Ushinskiy)
	PRESENTED:	June 16, 1960, by A. P. Vinogradov, Academician
	SUBMITTED:	June 8, 1960
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		$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i$
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CIA-RDP86-00513R001653010008-7

5/200/61/000/007/004/006 D238/D302 Vaynshteyn, E.Ye., Staryy, I.B., and Tsukerman, V.G. • The use of CdS single crystals for low intensity X-ray 9,6150 PERIODICAL: Akademiya nauk SSSR. Izvestiya. Sibirskoye otdeleniye, AUTHORS: TITLE: TEXT: The aim was to study the use of photo-cell resistance of CdS Single crystals in low intensity X-ray spectrum analysis. Previous single crystals in low intensity A-ray spectrum analysis. Frevious work had revealed the sensitivity, durability, stability and conve-nience of these crystals but it had nearly all been carried out with high intensity radiation. The experiments reported here were carried out with standard photo-cell resistances. type FSKM2. Fig. with migh intensity radiation. The experiments reported here were carried out with standard photo-cell resistances, type FSKM2. Fig. 1 shows experimental scheme. A diagnostic X-ray tube, type 2-RDMcarried out with standard photo-cell resistances, type ronme. rise 1 shows experimental scheme. A diagnostic X-ray tube, type 2-BDM-75. was placed 15 cm from the photo-cell resistance, and a ment-1 shows experimental scheme. A diagnostic X-ray tupe, type 2-BUM-75, was placed 15 cm from the photo-cell resistance, and a roent-gen quanta counter (nx 64 imp/min) 60 cm from the tube, thereby allowing direct and indirect measurement of intensity. The tube Card 1/5

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The use of CdS single ... 25280

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near relation between photo current strength and the radiation intensity on the resistances for all specimen of CdS crystals studied. The volt-ampere curve of the photo-cell resistance did not obey Ohm's law the discrepancy growing with increase in voltage and photometric intensity. Important complicating factors in using photocell resistances for recording weak radiation are their sluggishness and the effect of the specimen's previous history on the photo-cell current, which factors become more important as intensity diminishes. It has been reported that brightening of CdS photo-cell resistance was useful and this was studied here. The photo current strength, evoked by the effect of the illumination, on the resistance was excluded. Illumination influences not only the sensitivity to X-rays, but also the time taken to reach a constant photo-cell spectral composition of the illumination, visible light of low intensity giving better results than ultra-violet light both as regards overcoming sluggishness and for decreasing the time for photo-cell current fall-off when radiation stops. For more accurate

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results it is better to use a special measuring cell in which the photo-cell resistance is mounted with some fluorescent material both being irradiated simultaneously. Work with such a cell is to be reported. Conclusions: 1) CdS photo-cell resistance can be used to register low intensity radiation. 2) The sluggishness of the photo-cell resistance rises as the radiation intensity falls and may be counteracted by preliminary irradiation of the resistance. 3) The effect of brightening on sensitivity and inertia depends on the spectral composition of the illumination. As a supplementary means of decreasing inertia low intensity visible light is most effective. There are 10 figures, 1 table and 9 references: 7 Soviet-bloc and 2 non-Soviet-bloc. The references to English-language pub-lications read as follows: J. Fassbender, Annd. Phys. 5, 33, 1949; H. Simon, Annd. Phys. 12, 45, 1958.

ASSOCIATION: Institut geokhimii i analiticheskoy kiimii im. Vernadskogo AN SSSR; Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR; Odesskiy pedagogicheskiy institut im. K.D. Ushinskogc (Institute of Geochemistry

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 L 8379-65 EWT(1)/T/EEC(b)-2 IJP(c)/AEDC(b)/ASD(a)-5/RAEM(t) ACCESSION NR: AR4044022 SOURCE: Ref. zh. Fizika, Abs. 11A262 AUTHOR: Stary*y, I. B., Andrizhiyevskiy, G. K. TITLE: A crystal holder for precision bending of crystal plates CITED SOURCE: Nauchn. zap. kafedr matem., fiz. i yestestvozn. Odessk. gos. ped. CITED SOURCE: Nauchn. zap. kafedr matem., fiz. i yestestvozn. Odessk. gos. ped.	
 in-t, v. 25, no. 2, 1901, 109-101 TOPIC TAGS: crystal holder, crystal plate, precision bending, spectrometer, x ray spectrograph TRANSLATION: The quality of x-ray spectra obtained with the aid of x-ray spectro- graphs depends to a great extent on the perfection of the bending of crystal plates There is described an improved model crystal holder. The material is Dural (low There is described an improved model crystal holder. There is described coefficient of thermal expansion, weak secondary radiation). There is described the technology of preparing a Dural plate, and its dimensions. Before insertion 	
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R	s/849/62/000/000/003/016 A006/A101 Noentgenospectral analysis of the force of chemical bond in hydrides	•
R	aynshteyn, F. Ye., Zhurakovskiy, Ye. A., Staryy, I. B.	•
R	aynshoetral analysis of the force of chemical vanadium com-	
R		
LIAMONT	of reliance motallo-	
00000	of interatomic	
interaction rect informa	There are only indirect data available on the type of interatomic in hydrides. The authors attempted for the first time to obtain di- tion on the density of electron distribution over the energies in vanadium hydrides and to check by means of spectroscopy the hypo- to presence of a metallic bond between metal and hydrogen atoms in the presence of a metallic bond between metal and hydrogen atoms in For this purpose the authors investigated the fine structure of X-ray K-spectra of titanium in hydrides with 1.2 and about 3 weight % H, and in hydrides with 0.12; 0.28; 0.475; 0.75; 1.1 and 1.45 weight % H.	
of vanadium	in hydrides with company	
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Roentgenospectral analysis of the

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Absorption edges of initial metals were also studied. To eliminate undesirable consequences of heating the specimen during the experiments, the emission spectra of Ti in hydrides of various chemical composition were analyzed with the use of the fluorescence method. All the tests were performed on a high-intensity vacuum tube-spectrograph with Johann focusing. The titanium hydrides were prepared and analyzed by V. M. Mikheyeva, and the vanadium hydrides by T. V. Dubovic and G. V. Samsonov. The experiments proved the hypothesis on the "metallization" of the metal-hydrogen bond in the aforementioned compounds and the penetration of lselectrons of hydrogen into the vacant 3d-band of the transition metal. This is manifested in the gradual decrease (in comparison with the metal) of intensity of the long wavelength maximum, within the range of the basic edge of the hydride absorption band, and its displacement to the short wavelength side with increasing hydrogen content in the hydrides until this maximum vanishes entirely. A further increase of the hydrogen content in the hydrides does not cause changes in the absorption edge structure of the metal in hydrides. As expected, the long wavelength maximum of absorption in the spectrum of the transition metal in vanadium hydrides vanishes at lesser hydrogen contents in the alloy, than in titanium hydrides. Investigations of the fine structure of the $K_{\beta_{n}}$ -band of titanium

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Roentgenospectral analysis of the...

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in the hydrides confirm fully the conclusions on the nature of the chemical bond forces in these compounds. The conclusions were drawn from the analysis of experimental data on the absorption spectra of elements in these compounds. However, the peculiarities of the fine structure of Ti emission bands in the hydrides and its changes, depending on the composition of the compounds, may indicate changes in the nature of forces of chemical interaction between hydrogen and metal in the alloys, which differ in the degree of completeness of the transition metal 3d-band. It can also be considered that 1s-electrons of hydrogen formed in the hydrides and that the effective hydrogen charge is not equal to 1 and can be different for hydrides rich or poor in hydrogen. This explains also the incomplete vanishing of the K_B^m-satellite in the emission spectra of titanium in the hydrides. There are 5 figures.

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The X-ray absorption spectra ...

by reducing the respective very pure oxides with B or boron carbide, were found to contain only the hexaboride phase. The absorption spectra of metals in oxides and hexaborides were obtained with the aid of a focusing tube spectrographs in the second order of reflection from the plane (1011) of a bent quartz crystal. A very strong resemblance was found to exist for the L_{II} and L_{III} absorption edges bet-

ween the oxides and the hexaborides in the case of Ba and La, and there even exists an analogy between Ba and La. On the contrary, the curves for CeO_2 differ strongly from those for CeB_6 , and from the curves for Ba and La compounds. The fine structure of the L absorption spectra of Ba, La and Ce in oxide and hexaborides can be interpreted quite satisfactorily as a result of superposition of continuous absorption and of a group of selective lines which arise mainly due to the transition of the 2p-electrons of metals on the d-symmetry energy levels. There are 8 figures. The most important English-language references read as follows: B. Post, D. Moskowitz, F. Glaser, J. Amer. chem. Soc., 81, 1800, 1956; H. Longuet-Higgins, M. Roberts, Proc. Roy. Soc., 224, 336, 1954.

Card 2/3

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The X-ray absorption spectra ...

S/192/62/003/002/002/004 D267/D301

ASSOCIATION: Institut neorganicheskoy khimii SO AN SSSR, Institut metallokeramiki i spetsial'nykh splavov AN USSR, Odesskiy pedagogicheskiy institut im. K.D. Ushinskogo (Institute of Inorganic Chemistry, Siberian Branch, AS USSR; Institute of Powder Metallurgy and Special Alloys, AS UkrSSR; Odessa Pedagogical Institute im. K.D. Ushinskiy)

SUBMITTED:

July 24, 1961

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AUTHORS: Tsukerman, V. G., Staryy, I. B., and Vaynshteyn, E. Ye.

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TITLE: Reduction of the time lag of cadmium sulfide photoresistors when weak X-ray intensities are recorded

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 5, 1962, 592-594

TEXT: The CdS photoresistor ΦCKM (FSKM) is a valuable tool for recording the radiation intensity in X-ray spectroscopy and dosimetry, but for low X-ray intensities time lags of several minutes may occur. The resistors are fed with direct current, and the dependence of the signal-to-noise ratio on the applied voltage and the intensity of irradiation is studied. It varies from resistor to resistor but there is always a distinct maximum at about 20-40 volts. The reduction of the time lag by pre-irradiation with X-rays is shown in Fig. 3. Before curve 1 was measured the resistor was kept in the dark for a long time. The following curves 2, 3, and 4 show the results of subsequent measurement series with the same resistor under the same conditions where after each series of measurements the resistor was kept in the dark for one hour. The pre-irradiation remains effective

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· -	<u>L 13011-63</u> <u>EWT(1)/EWP(q)/EWT(m)/BDS</u> <u>AFFTC/ASD</u> <u>WW/JD</u> ACCESSION NR: AP3002906 <u>S/0289/63/000/001/0096/0105</u>		
•			
	AUTHOR: Tsukerman, V. C.; Vaynshteyn, E. Ye.; Stary*y, I. B.		
	TITLE: Utilization of monocrystalline photoresistance of CdS in x-ray spectral analysis		
	SOURCE: AN SSSR, Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 1, 1963, 96-105		
•	TOPIC TAGS: CdS photoresistance, x-ray spectroscopy, x-ray dose measurement, x-ray irradiation		
•	ABSTRACT: The present study is a continuation of the investigation of the peculiarity of CdS monocrystal. The results of analysis of the photo-resistance of CdS during its subjection to a variable voltage of a varied frequency is described, and the description of a special dosimetric construction used in the measurement of the intensity and the dose of x-ray irradiation is given. The effect of various		
	factors such as the frequency of variable voltage which is fed into the photoresistance, the dose of preliminary x-ray irradiation, the size of crystals and the automatic illumination with a visible light were studied. These factors were compared with the sensitivity and inertness of the monocrystalline CdS-		
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L 13011-63 ACCESSION NR: AP300 photoresistance dur:	ing its use in the sneature	al analysis for t	the registration	2-
photoresistance has allows the increase compared to the exis transmitter. The do successfully as a mo	the x-ray radiation. An been proposed which has b of sensitivity of the app ting ones. A method is g simetric construction des nitor and as a discrimina . has: 12 figures, 7 for	experimental mod peen experimental paratus up to 20 given for the imp peribed in this p	lel for measurin Ly tested and w to 40 times as provement of the aper can also b	g the hich
ASSOCIATION: Instit Novosibirsk (Institu	ut neorganicheskov khimii te of Thorganic Chemistre	Sibirskogo otde	leniya AN SSSR,	
ASSOCIATION: Instit Novosibirsk (Institu	ut neorganicheskoy khimii te of Inorganic Chemistry skiy institut (Odessa Ped	Sibirskogo otde , Siberian Depar agogical Institu	leniya AN SSSR, tment AN SSSR); te)	
ASSOCIATION: Instit Novosibirsk <u>(Institu</u> Odesskiy pedagogiche	ut neorganicheskov khimii te of Thorganic Chemistre	Sibirskogo otde	leniya AN SSSR, tment AN SSSR); te)	
ASSOCIATION: Instit Novosibirsk <u>(Institu</u> Odesskiy pedagogiche SUBMITTED: 14Feb62	ut neorganicheskoy khimii te of Inorganic Chemistry skiy institut (Odessa Ped DATE ACQ: 24Jul63	Sibirskogo otde , Siberian Depar agogical Institu ENCL: 00	leniya AN SSSR, tment AN SSSR); te)	
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L 137	<u>704–63</u>	
ACCE	SSION NR: AP3003515 S/0020/63/151/001/0120/0121	· · · ·
AUTH	ORS: Vaynshteyn, E. Ye.; Stary*y, I. B.; Bril', M. N.	
TITL sama:	E: X-ray L-absorption spectra for lanthanum, praseodymium, neodymium, and rium in oxides and fluorides	
SOUR	CE: AN SSSR. Doklady*, v. 151, no. 1, 1963, 120-121	
TOPIC sama:	C TAGS: X-rays, absorption spectrum, lanthanum, praseodymium, neodymium, rium	
of pe graph their of th	RACT: Authors obtained absorption spectra of rare-earth elements in compounds eroxides, oxides, oxyfluorides, and fluorides with a focusing tube spectro- h. Results are shown in a figure and are discussed. "The authors express r gratitude to L. V. Soboleva and L. R. Batsanova for the presentation of some he compounds which were analyzed in this work." The paper was presented by emician A. P. Vinogradov on 9 March 1963. Orig. art. has: 1 figure.	
SSSR	CIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk (Institute of Inorganic Chemistry, Siberian Department, Academy of Sciences ; Odesskiy pedagogicheskiy institut im. K. D. Ushinskogo (Odessa pedagogical	
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JD/JG. AFFTC/ASD EWP(q)/EWT(m)/BDS s/0020/63/151/006/1360/136342 L 18963 -63 AP3006598 ACCESSION NR: AUTHORS: Vaynshteyn, E. Ye.; Bril', M. N.; Stary*y, в.; Ι. Some results of X-ray study of cerium and lanthanum TITLE: Doklady*, v. 151, no. 6, 1963, 1360-1363 hydrides electron bond, valence, hydrogen bond, metallic bond, La, Ce, X-ray spectra, hydride preparation, AN SSSR. SOURCE: TOPIC TAGS: hydride storage ABSTRACT: Use of hydrides of rare earth elements in metallurgy, vacuum technique, and synthesis created interest for additional information concerning the physico-chemical properties of these compounds. Authors studied the hydrides LaH_{1.97}, LaH_{2.24}, LaH_{2.66}, CeH₃, CeH_{2.24}, and CeH_{2.66} by X-ray spectrometry. Samples for investigation were prepared by Card 1/82

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direct reaction of hydrogen and metals at room temperature. Hydrides with lower hydrogen content were prepared by heating high hydrogen-content hydrides. Hydrides were impregnated on silk cloth and sealed in polyethylene envelopes. Preparation was accomplished in a dry chamber, filled with CO₂ and operunder vacuum. Results of investigation indicate that cerium and lanthanum in hydride form have three valences and valence energy only partly used in formation of ionic bonds with hydrogen, while the rest of it is used to produce metallic cal conductivity with an increase of hydrogen content. Orig.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR (<u>Institute of Inorganic</u> <u>Chemistry, Siberian Division, Academy of Sciences, SSSR</u>), Institut neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (<u>Institute of Inorganic Chemistry, Academy of</u>

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	ACCESSION NR: AP5002800 S/0078/65/010/001/0121/01262	
	AUTHOR: Vaynshteyn, E. Ye.; Blokhin, S. M.; Bril', M. N.; Staryy, I. B.; B	
	Paderno, Yu. B.	
	TITLE: X-ray spectral investigation of the valency state of rare earth element atoms in the hexaborides	
	SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 1, 1965, 121-126	
	SOURCE. Zhurnar neorganicheskoy kinnin, v. 10, no. 1, 1903, 121-120	
	TOPIC TAGS: rare earth hexaboride rare earth element valence, valence de-	
	-termination, x ray absorption spectrum -27	्र र इन्ह्रस्ट इन्ह
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an a	ABSTRACT: The X-ray L-absorption spectra of the rare earth element hexa-	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	borides and oxides were compared to determine the valency state of the rare eart	
	element in the hexaborides. The L_{III} absorption spectra of the Ce, Nd, Pr and	
	Gd oxides and hexaborides were analogous, with coinciding long wave absorption	
	line maxima, indicating the hexaborides were trivalent, as were the oxides. Differences in the short wave maxima were ascribed to differences in the crystal	
· .	structure of the oxides and hexaborides. In the case of Eu and Yb, the shift of	
	the absorption edge toward the long wave by the hexaborides in comparison to the	
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oxides indicated the valency interpreted to indicate the pr trivalent Sm. The effect of t Sm is being studied. Orig. a ASSOCIATION: Institut neor (Institute of Inorganic Chemi miki i spetssplavov AN UkrSR(UkrSSR);Odesskiy, pedagogichesk Institute)	esence of 35-40% div emperature (-100 to art. has: 9 figures an ganicheskoy khimii Sil stry, Siberian Branch Institute of Powder Ma	alent Sm distributed among th +600C) on the role of divalent d 1 table. birskogo otdeleniya AN SSSR , AN SSSR); Institut metalloke tallurgy and Special Alloys A	he t Pra-
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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001653010008-7

AUTHOR: Tsukerman, V.G.; Lyubin, V.M	R/0289/65/000/001/0124/0125 33 5.215.4:621.315.592:537.531 32 I.;Staryy, I.B.; Vaynshteyn, E. Ye. 8	
TITLE: Photosensitivity of certain semicor spectrum	nducting <u>films</u> in the X-ray region of the	
SOURCE: AN SSSR. Sibirskoye otdeleniye. 1965, 124-125	. Izvestiya, Seriya khimicheskikh nauk, no. 1	
TOPIC TAGS: cadmium sulfide, tellurium selenide, <u>semiconducting film</u> , photosensit ABSTRACT: Semiconducting films of Cd2e,	ive film CiTe (crystalline structure) and Sb ₂ Se ₃ ,	
- An So- TI-So An-Son (amornhous structur	re), 1-5 microns thick, were investigated. hiefly across the film, and the intensity of the	
sensitivity .	$\mathcal{A} = \frac{I_{\mathcal{A}}}{I_{d}}$	

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and I, is the dark current) are tabulated. Dosimetric characteristics of the materials, obtained in the region of low X-ray intensities, are also given. It was found that the best parameters for use in X-ray vidicons are displayed by Tl₂Se. As₂Se₃ films, which have a large dark resistance, a high sensitivity, and a linear dosimetric characteristic. Typical lux - ampere characteristics of Tl₂Se. As₂Se₃ films excited by visible light were determined, and are expressed by the relation $I_d = A$. Eⁿ, where n depends on the illumination intensity. In the range of weak illumination values, n is close to unity, and the course of the lux - ampere characteristics is similar to the dosimetric characteristic of the Tl₂Se. As₂Se₃ film in the X-ray region at low radiation intensities. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk (Institute of Inorganic Chemistry, Siberian Branch, AN SSSR)

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STARY, I.V., professor (g. Praga)

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Organization of shipment of light freight on Czechoslovak railroads. Zhel. dor. transp. 38 no.8:86-88 Ag '56.

(MLRA 9:10)

(Czechoslovakia--Railroads--Freight).

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STARY, J.

Correction factor at the absolute dosimetry of *F*rays by means of the Geiger-Muller counter. p. 90. (Ceskoslovensky Casopis Pro Fysiku. Vestnik. Vol. 7, no. 1, 1957.)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

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STARY, J.; SAF, J.; BARTAK, S.

"The 4310 television receiver. p. 93."

SDELOVACI TECHNIKA. Praha, Czechoslovakia. Vol. 7, no. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas.

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STARY, J.

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"Extraction methods in anlytic chemistry" by G. H. Morrison, H. Freiser. Reviewed by J. Stary. Chem listy 57 no. 5: 550-551 My '63.

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STARY, Jaroslav, dr.

计学生教习分

Commercial jet aircraft with motors at the back of the body. Letecky obzor 8 no.2:36-41 F $\,$ 64.

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BARTAK, Stanislav, inz.; BARTUNKOVA, Alena, inz.; STARY, Jaroslav, inz.

VUST experimental transistor television receiver. Sdel tech 12 no. 3:89-92 Mr '64.



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[J.] STARY,

Automatic Control of Open-Hearth Furnaces."

report read at athe Conference on Automatization in Metal Work, Resentary 4-6 October, Liblice.

publ. in separate symposium, Dec 1954, 56pp.

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Hutnicke Listy, No. 11, 54, p. 9680

STARY, J.

Examining the extraction of a lanthanum benzoyl-acetone complex. (EEAI 9:12) Coll Cz Chem 25 no.1:86-92 Ja •60.

1. Institut fur Kernchemie, Fakultat fur technische Physik und Kernphysik, Tschechische technische Hochschule, Frag. (Extraction (Chemistry)) (Phenylbutanedione) (Complex compounds)

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STARY, J.

i.

Research concerning extraction of U(VI)-complex with benzoylacetone. Coll Cz chem 25 no.3:890-896 Mr '60. (EEAI 9:12)

1. Institut fur Kernchemie, Fakultat fur technische Physik und Kernphysik, Tschechische technische Hochschule, Prag. (Uranium) (Phenylbutanedione) (Extraction (Chemistry))

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CIA-RDP86-00513R001653010008-7"

STARY, J.

Determination of composition and stability constants of metal complexes by the extraction method. Coll Cz chem 25 no.10:2630-2641 0 '60. (EEAI 10:9)

1. Institut fur Kernchemie, Fakultat fur technische Physik und Kernphysik, Prag.

(Metals) (Exgraction(Chemistry))

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\$/275/63/000/002/032/032 D405/D301 Stary, J. AUTHOR: Trigger circuit of transistor converters TITLE: Referativnyy zhurnal, Elektronika i cyc primeneniye, no. 2, 1963, 39, abstract 2V244 P (Chekhosl. pat., kl. 21d², 12/03, 21a⁴, 35/01, no. 101465, 15.11.61 BERIODICAL: Ť (Czech patent)) . In order to extend the temperature range of a transistor converter whose displacement voltage is given by a divider connected to a d.c. source, it is suggested to utilize in the emitter-base circuit a semiconductor-triode trigger circuit consisting of a thermistor in parallel with a semiconductor diode. The appropriate design of the trigger circuit can ensure temperature stability of the converter under overloads; it gives a low resistance to the emitter-base circuit and such a low displacement voltage of the semiconductor triode, that the current which arises in the emitter-Even in the case of short breaks collector circuit will be < I co. Card 1/2

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s/081/62/000/001/010/067 B156/B101 The extraction of a hexavalent uranium complex by dibenzoyl Moučka, V., Starý, I. 21 4-200 AUTHORS : Referativnyy zhurnal. Khimiya, no. 1, 1962, 107, abstract 1V56 (Collect. Czechosl. Chem. Communs, v. 26, no. 3, 1961, TITLE: methane TEXT: The dissociation constant, distribution coefficient and solubility of dibergory methens (HA) in water bergens (HC) and (C) are determined PERIODICAL: TEAT: The dissociation constant, distribution coefficient and solubility of dibenzoyl methane (HA) in water, benzene, CHCl₃ and CCl₄ are determined. The relationship between the extraction of U^{6+} by solutions of HA in benzene, CHCl₃ and CCl₄ to the pH and the concentration of U and HA is studied. It is established that a type $UO_2A_n(OH)_p - (HA)_r$ complex is formed in the is established that a type $0.2^{n} (0.1)^{p} (0.1)^{r}$ ($0.1)^{r}$ ($0.2^{+} + 3(HA)(org.)$ aqueous phase, and that extraction follows the equation $UO_2^{2+} + 3(HA)(org.)$ = (U02^A2^{HA})(org.) + 2H⁺. The equilibrium constant of this reaction is X Card 1/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001653010008-7 S/081/62/000/001/010/067 B156/B101 The extraction of a hexavalent uranium ... equal to $3.30 \cdot 10^{-5}$ in the case of CCl₄, $".57 \cdot 10^{-5}$ for C₆H₆, and $9.55 \cdot 10^{-5}$ for CHCl₃. An approximate value is computed for the coefficient of distribution of the neutral complex $UO_2 \cdot A_2 \cdot HA$, and a direct relationship established between this value and the distribution ratio of HA. [Abstracter's note: Complete translation.] X Card 2/2



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RUZHICHKA, Ya. [Ruzicka, J.]; STARY, I. [Stary, J.]; ZEMAN, A.

Subsidichiometric determination of mercury traces by activation analysis and isotope dilution. Zhur, anal. knim. 19 no.8:932-936 '64. (MIRA 17:11)

1. Cheshskoye vyssheye tekhnicheskoye uchilishche, Praga, Chekhoslovakiya. 2. Ob"yedinennyy institut yadernykh issledovaniy, Dubna (for Stary).

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STARY, J.

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Corynebacterium pyogenes and chronic middle ear infections. Gesk. otolaryng. 14 no.4:240-242 Ag 165.

1. Otolaryngologicke oddeleni Krajske nemocnice s poliklinikou v Gaskych Budejovicich (vedouci MUDr. H. Venclik, CSc.).

APPROVED FOR RELEASE: 08/25/2000

STARY, J.

Intermittent deafness in columellization. Use: otolaryng. 13 no.6:327-330 N 164

1. Otolaryngologicke oddeleni Krajske nemocn'e s poliklinikou v Geskych Budejovicich (vedouci MUDr. H. Verclik, CSc.)

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بليس بالمسهدية المنابح وتسهر بالانههي 514147 1. 1. VENCLIK, H.; POTUZNIK, V1.; STARY, JAN Etiology and treatment of acute middle ear inflammations in children in a period of resistant pathogenic flora. Cesk. otolar. 6 no.2:80-88 Apr 57. 1. Otolaryngologicke oddeleni KUNZ-nemocnice C. Budejovice, prednosta MUDr H. Venclik Bakteriologicka laborator 4. okruh. nemocnice C. Budejovice, prednosta MUDr V1. Potuznik. (OTITIS MEDIA, in inf. & child incidence of penicillin-resist. Micrococcus pyogenes in infect. (Cz)) (MICHOCOCCAL INFECTIONS otitis media in child. by penicillin-resist. strains (Cs))

VENCLIK, Hynek; START, Jan

Late anatomical and functional results after tympanoplastic operations in inflammatory and postinflammatory states. Sborn. ved. prac. lek. fak. Karlov. univ. (Hrad. Kral.) 4 no.1:85-99 '61.

1. ORL oddeleni Krajske nemocnice s poliklinikou v Ces. Budejovicich; prednosta MUDr. Hynek Venclik.

(OTITIS MEDIA surgery)

VENCLIK, Hynek; STARY, Jan

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Tympanoplasty by the endomeatal route. Cesk. otolaryng. 11 no.3: 159-165 '62.

1. Otolaryngologicke oddeleni krajske nemocnice s poliklinikou v Geskych Budejovicich, prednosta dr. H. Venclik, CSc.

(TYMPANIC MEMBRANE surgery) (OTITIS surgery)

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11/1/1 ST MINY HOLUE, Jan, MUDr.; STARY, Jiri, MUDr.; LEDR, Jaromir, MUDr. Method, indication & results of surgical treatment for vaginal & uterine prolapse & urinary incontinence. Cesk. gyn. 22[36] no.6: 450-454 Sept 57. 1. Gyn. porod. odd. OUNZ Teplice, prednosts Dr J. Holub. (UTERUS, dis. prolapse, surg., indic. & technic (Cz)) (VAGINA, dis. same) (URINATION DISORDERS incontinence, surg., indic. & technic (Gz))

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RUZICNA, Jaromir; STARY, Jiri

Substoichiometric determination of traces of metals by activation analysis and isotopic dilution. Chem listy 57 no.10:1025-1047 0 163.

1. Katedra jaderne chemie, Fakulta technicke a jaderne fysiky, Praha.

Mathematical Science in Least Sciences and S

STARY, Jaroslav, MUDr. فالمعادية والمعادية والمتعادية Dispensary care of workers at a plant. Prakt. lek., Praha 35 no.5: 116-117 5 Mar 55. 1. Zav. lekar zavodu Zd. Nejedleho, Nachod (INDUSTRIAL HYGIENE dispensary care at plant) (OUTPATIENT SERVICE at plants)

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STARY, J. MUDr (Nachod)

Samanger and the Rest of the Experiences of an industrial physician. Prakt. lek., Praha 34 no.11:252-253 5 June 54. (INDUSTRIAL HYGIENE, in Crech.)

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MAREK, Jaroslav; SPITZER, Karel; STARY, Jaroslav

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Noctua interposita Hubner, 1789 (Lep., Noctuidae) in Czechoslovakia. Gas entom 61 no.2:190-193 '64

1. Czechoslovak Entomological Society affiliated with the Czecho-slovak Academy of Sciences, Prague.

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