1. Record Nr. UNINA9910462515903321

Titolo	Solid compounds of transition elements : selected, peer reviewed papers from the 17th International Conference on Solid Compounds of Transition Elements, (SCTE2010), September 5-10, 2010, Annecy, France / / edited by J.-L. Bobet, B. Chevalier and D. Fruchart
Pubbl/distr/stampa	Durnten-Zurich, Switzerland : , : Trans Tech Publications, , [2011] ©2011
ISBN	3-03813-509-7
Descrizione fisica	1 online resource (325 p.)
Collana	Solid state phenomena, , 1012-0394 ; ; volume 170
Altri autori (Persone)	BobetJ.-L ChevalierB FruchartD
Disciplina	541.0421
Soggetti	Solid state physics Transition metals Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Solid Compounds of Transition Elements; Organisation Committee, Sponsors, Preface; Table of Contents; Influence of Co Moment on Magnetic Properties of Co2Sm2W3O14 Tungstate; Electrical Resistivity Anomalies in SbxVyMozOt Phases; Thermally Induced High-Spin Low-Spin Transition in Co[Cr0.5Ga1.5]S4 Spinel; The Atomic Site Occupancies in the Fe-Cr -Phase; New Ferromagnetic Chromium Chalcogenides, ACr5Te8 (A = K, Cs and Rb); Optical Characterization of Electronic Structure of CuInS2 and CuAlS2 Chalcopyrite Crystals; Structure and Magnetism of a Novel Nickel Sulfate Ni2-SO5 Deposition and Characterization of IrO2 Nanocrystals on Vertically Aligned Carbon Nanotubes by MOCVDElectronic and Magnetic Properties of Ternary Stannides RERhSn (RE = Tb, Dy and Ho); Growth and Characterization of Well-Aligned RuO2/R-TiO2 Heteronanostructures on Sapphire (100) Substrates by Reactive Magnetron Sputtering; Neutron Diffraction Study of the Kondo Systems Ce6Ni1.67Si3 and Ce5Ni1.85Si3; Superconductivity in Fluorine-

Arsenide Sr1-xNdxFeAsF; Phase Relation of FeS2-VS2 System and New Phase of Defect Troilite Structure
Mechanochemical Synthesis of Nanocrystalline (Fe,Co)34-Based Alloys and their Magnetic PropertiesA New Ternary Phase, Called LaCuMg8, for Solid Hydrogen Storage. Influence of Ball Milling and Cold Rolling; Magnetic Properties of the Gd1-xTbxNi3 Intermetallic Compounds; Magnetic Properties of Fe-Nb-B-Re (Re=Y, Gd) Bulk Nanocrystalline Alloys; Disorder-Sensitive Superconductivity and Bonding Network in the Iron-Silicide Superconductor Lu2Fe3Si5; Some Aspects of the Intercalation Chemistry of the Niobium and Tantalum Carbide Chalcogenides Nb2S2S, Ta2S2C and Ta2Se2C
Mossbauer and Magnetization Measurements of Al3Mn(Pd,Fe) CompoundsThermal Expansion of Oxyarsenides (LaO)TAs; T = Transition Metal; Anisotropy of Photoluminescence in Layered Semiconductors ReS2 and ReS2:Au; Amorphous Shell Formation on the Iron Particles during Mechanosynthesis in Fe2O3/Fe/(Ga,Al) Mixtures; Replacement of Vanadium by Ferrovanadium in Ti-Based BCC Alloys for Hydrogen Storage; Synthesis and Physical Properties of (NaxRE1-x) AlB14 (RE=Li, Mg, Rare Earths) Obtained by Molten Al Flux; Mossbauer Spectroscopic Analysis of Nd2Fe14B/-Fe Hard Magnetic Nanocomposites
Influence of Surface Active Substances on Magnetic Properties of Goethite Nanoparticles

Sommario/riassunto

This special collection gathers together the newest results on novel classes of materials which contain transition metals. It covers crystal chemistry, chemical bonding and electronic structure, magnetic and electron transport properties, thermo-electrics, hydrides, borides, carbides, silicides, germanides, pnictides, chalcogenides and complexes, metallic alloys and oxides. It will of interest to all those who work with transition metals. Review from Book News Inc.: The 63 papers report on such topics as synthesizing novel chromium oxide using a hydrothermal method and analyzing its magnet

2. Record Nr. UNINA9910143970603321

Titolo	Near-infrared spectroscopy [[electronic resource]] : principles, instruments, applications / / edited by H.W. Siesler ... [et al.]
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2002
ISBN	1-281-76395-0 9786611763954 3-527-61266-1 3-527-61267-X
Descrizione fisica	1 online resource (364 p.)
Altri autori (Persone)	SieslerH. W. <1943->
Disciplina	543.08583 543/.08583
Soggetti	Near infrared spectroscopy Infrared spectroscopy Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Near-Infrared Spectroscopy Principles, Instruments, Applications; Contents; Foreword; List of Contributors; 1 Introduction; 1.1 General Remarks; 1.2 Basic Principles of Vibrational Spectroscopy; 1.3 Instrumentation; 1.4 Process-Monitoring; 1.5 References; 2 Origin of Near-Infrared Absorption Bands; 2.1 Introduction; 2.2 Principles of Near-Infrared Spectroscopy; 2.2.1 The Diatomic Molecule; 2.2.1.1 The Harmonic Oscillator; 2.2.1.2 Anharmonic Oscillator; 2.2.2 The Polyatomic Molecule; 2.2.2.1 Harmonic Approximation; 2.2.2.2 Influence of Anharmonicity; 2.2.2.3 Degenerate Vibrations 2.2.2.4 Symmetry Considerations2.2.2.5 Fermi and Darling-Denisson Resonances; 2.3 Chemical Assignments of NIR Bands; 2.3.1 Group Frequencies; 2.3.1.1 C-H Absorptions; 2.3.1.2 O-H Absorptions; 2.3.1.3 N-H Absorptions; 2.3.2 Deuteration; 2.3.3 Polarisation Measurements; 2.3.4 Two-Dimensional Correlation Spectroscopy; 2.4 Conclusion; 2.5 References; 3 Instrumentation for Near-Infrared Spectroscopy; 3.1 Configuration of Near-Infrared Spectrometers; 3.2 Interference-Filter Spectroscopy; 3.2.1 Principle of Interference-Filter

Spectroscopy; 3.2.2 Wavelength Scanning
3.3 Diffraction-Grating Spectroscopy3.3.1 Principle of Diffraction-Grating Spectroscopy; 3.3.2 Wavelength Scanning for Grating Spectroscopy; 3.3.3 Multichannel Spectroscopy with a Polychromator; 3.3.4 Production Methods of Reflection-Type Diffraction Gratings; 3.4 Spectroscopy with Acousto-Optical Diffraction Gratings; 3.4.1 Schematics of Acousto-Optical Diffraction Gratings; 3.4.2 Characteristics of Spectroscopy by Bragg Diffraction; 3.4.3 Application and Materials of Acousto-Optical Elements; 3.5 Fourier-Transform Spectroscopy; 3.5.1 Principle of Fourier-Transform Spectroscopy 3.5.2 Characteristics of Fourier-Transform Spectroscopy3.5.2.1 Optical Throughput Advantage; 3.5.2.2 Multiplexing Advantage; 3.5.2.3 Resolution; 3.5.3 Various Types of Michelson Interferometer; 3.5.4 Polarisation Interferometer; 3.5.5 FT-NIR Raman Spectroscopy; 3.6 Multichannel Fourier-Transform Spectroscopy; 3.6.1 Principle of Multichannel Fourier-Transform Spectroscopy; 3.6.2 Multichannel Fourier-Transform Spectroscopy with a Polarising Interferometer with a Savart Plate; 3.7 Comparison of Spectrometers; 3.8 References; 4 New Techniques in Near-Infrared Spectroscopy
4.1 Near-Infrared Light Sources4.1.1 Thermal Radiation; 4.1.1.1 Tungsten Halogen Lamp; 4.1.1.2 Nichrome Heater and Globar; 4.1.2 Laser and Light Emitting Diode; 4.1.2.1 Light Emitting Diode and Semiconductor Laser; 4.1.2.2 Other Lasers; 4.2 Near-Infrared Detectors; 4.2.1 Photoconduction Effect; 4.2.2 The Photovoltaic Effect; 4.2.3 Multi-Channel Detectors; 4.3 Optical Elements for the Near-Infrared Region; 4.4 References; 5 Near-infrared FT-Raman Spectroscopy; 5.1 Introduction; 5.2 Principles of FT-Raman Spectrometry; 5.2.1 Raman Scattering; 5.2.2 FT-Raman Measurement 5.2.3 Apodisation Function and Line Shape

Sommario/riassunto

Over the last few years, near-infrared (NIR) spectroscopy has rapidly developed into an important and extremely useful method of analysis. In fact, for certain research areas and applications, ranging from material science via chemistry to life sciences, it has become an indispensable tool because this fast and cost-effective type of spectroscopy provides qualitative and quantitative information not available from any other technique.This book offers a balanced overview of the fundamental theory and instrumentation of NIR spectroscopy, introducing the material in a readily comprehensible m

3. Record Nr. UNINA9910702185903321

Autore	Clark Melanie L.
Titolo	Water-quality characteristics and trend analyses for the Tongue, Powder, Cheyenne, and Belle Fourche River drainage basins, Wyoming and Montana, for selected periods, water years 1991 through 2010 / / by Melanie L. Clark ; prepared in cooperation with the Wyoming Department of Environmental Quality
Pubbl/distr/stampa	Reston, Virginia : , : U.S. Department of Interior, U.S. Geological Survey, , 2012
Descrizione fisica	1 online resource (vii, 70 pages) : illustrations (some color)
Collana	Scientific investigations report ; ; 2012-5117
Soggetti	Water quality - Belle Fourche River Watershed (Wyo. and S.D.) - Measurement Water quality - Tongue River Watershed (Wyo. and Mont.) - Measurement Water quality - Powder River Watershed (Wyo. and Mont.) - Measurement Water quality - Cheyenne River Watershed (Wyo. and S.D.) - Measurement
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed Aug. 26, 2014).
Nota di bibliografia	Includes bibliographical references (pages 34-38).