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Canadian Journal of Physics - 1990-07

International Aerospace Abstracts - 1999

Electron Paramagnetic Resonance of d

Transition Metal Compounds - F.E. Mabbs
2013-10-22

Electron paramagnetic resonance (epr) spectroscopy is a sensitive and versatile method of studying paramagnets, which is finding

increasing use in chemistry, biochemistry, earth and materials sciences. The technique is treated both qualitatively and quantitatively, with a progressive increase in sophistication in each succeeding chapter. Following a general introductory chapter, the first half of the book deals with single unpaired electron systems and considers both metal and ligand Zeeman, hyperfine and quadrupole interactions. The simulation of these spectra is discussed, followed by the relationship between spin-Hamiltonian parameters and models of the electronic structures of paramagnets. The second half of the book treats multiple unpaired electron systems using the same philosophy. An introduction to the epr properties of cluster compounds and of extended exchanging systems is also given. There is a chapter on linewidths and lineshapes, and an extensive appendix containing much additional information. A wide-ranging library of simulated and experimental spectra is given, as well as graphical data which

should aid spectrum interpretation. Each chapter contains key references and there is a substantial subject and keyword index. This book is designed to teach epr spectroscopy to students without any previous knowledge of the technique. However, it will also be extremely useful to researchers dealing with paramagnetic d transition metals.

The Caves of Qumran - Marcello Fidanzio
2016-11-01

Proceedings of an international conference entirely dedicated to the caves of Qumran. Archaeologists and manuscript scholars perform a typological and a distributional analysis on the contents of the caves of the Qumran area and the other finds in the Dead Sea region.

Biointerface Characterization by Advanced IR Spectroscopy - C.-M. Pradier 2011-09-02

"There is an increasing interest in research and applications of biosensors and bio-compatibility in relation to environmental protection, food and medical safety, implants, early detection of

diseases and pollutant detection. This book describes how to characterise amino acids, protein or bacterial strain adsorption on metal and oxide surfaces by using infrared spectroscopy, in a vacuum, in the air or in an aqueous medium. Features description of the principles, experimental setups and parameter interpretation, and the theory for several advanced IR-based techniques for interface characterisation. Contains examples which demonstrate the capacity, potential and limits of the IR techniques. Helps finding the most adequate mode of analysis."--Publisher.

Passivity of Metals and Semiconductors -

Michel Froment 2013-09-03

Passivity of Metals and Semiconductors covers the proceedings of the Fifth International Symposium on Passivity, held in Bombannes, France on May30 - June3, 1983. The said symposium is concerned with passivity of metallic materials, localized corrosion, experimental techniques, and classical

techniques such as optical techniques and electron spectroscopy. The book is divided into five sections. Section I deals with the concepts involved in the composition-transport phenomena and covers topics such as the transport of oxygen and water in oxide layers; the kinetics of oxidation of silicon; and the oxidation rate laws of metals that form nonstoichiometric oxides. Section II covers related techniques and their specific applications such as study of passivity of iron by in situ methods; optical methods in the study of passive films; and the analysis of multiple layer surface films by modulated reflection spectroscopy. Section III tackles amorphous metals - their passivity, their depassivation and repassivation in localized corrosion, and a comparison of models for localized breakdown of passivity. Part IV discusses the photoelectrochemistry of semiconductors; Part V tackles passivation and localized corrosion of stainless steels. The text is recommended for organic chemists,

metallurgists, and engineers who would like to know more about the passivity of metals and their applications in different fields.

English Mechanic and World of Science ... - 1882

Engineering - 1883

The Athenaeum - 1881

Transitions non radiatives dans les molécules - Société de chimie physique 1970

Amorphous Insulating Thin Films II - Roderick A. B. Devine 1995

These proceedings present a review of the research being carried out in the field of amorphous insulating thin films. Topics discussed include: nitrides, structure and defects; hydrogen in MOS structures and oxides; silicon dioxide, charge trapping; and ONO and nitride oxides.

Journal de physique - 2002

Bibliotheca historico-naturalis - 1885

Pesticides Abstracts - 1975

Physics Briefs - 1993

Bibliotheca historico-naturalis et physico-chemica, oder, Systematisch geordnete Uebersicht der in Deutschland und dem Auslande auf dem Gebiete der gesammten Naturwissenschaften neu erschienenen Bücher - 1885

Scientific American - 1897

Solar Energy Update - 1984

Selected Water Resources Abstracts - 1988

English Mechanic and Mirror of Science - 1870

Mammalian Evolution, Diversity and Systematics - Frank Zachos 2018-10-22

There are nearly 6,000 mammalian species, among them our own. Research on our evolutionary cousins has a long history, but the last 20 years have seen particularly rapid progress in disentangling the interrelationships and evolutionary history of mammals. The present volume combines up-to-date reviews on mammalian phylogenetics with paleontological, taxonomic and evolutionary chapters and also summarizes the historical development of our insights in mammalian relationships, and thus our own place in the Tree of Life. Our book places the present biodiversity crisis in context, with one in four mammal species threatened by extinction, and reviews the distribution and conservation of mammalian diversity across the globe. This volume is the introductory tome to the new Mammalia series of the Handbook of Zoology and will be essential reading for mammalogists, zoologists and conservationists

alike.

Encyclopedia of Environmental Analysis and Remediation, Volume 1 - Robert A. Meyers 1998
With the growing concern over the environment, new industries and research areas have been developed to identify, monitor, regulate, and legislate environmental interactions as well as to determine and repair existing environmental damage. For both the expert and the newcomer, a quick, convenient, and comprehensive source is needed to answer questions on the rapidly increasing amount of environmental information. The Encyclopedia of Environmental Analysis and Remediation (EEAR) responds to this need by providing the reader with an in-depth examination of the environmental analysis and remediation fields in a single eight-volume reference source.

English Mechanic and Mirror of Science and Art - 1870

Canadian Journal of Chemistry - 2005

Nuclear Science Abstracts - 1975

Bibliotheca historico-naturalis, oder Vierteljährliche systematisch geordnete übersicht der in Deutschland und dem auslande auf dem gebiete der zoologie, botanik und mineralogie neu erschienenen schriften und aufsätze aus zeitschriften - 1885

Monthly Weather Review - 1905

Proceedings of the International Congress Intergranular and Interphase Boundaries in Materials - Marc Aucouturier 1990

The Athenæum - 1881

Nature - Sir Norman Lockyer 1880

Nonlinear Behaviour of Molecules, Atoms, and Ions in Electric, Magnetic, Or Electromagnetic

Fields - Société de chimie physique 1979

Electrical Phenomena at the Biological Membrane Level - Société de chimie physique 1977

Platform Chemical Biorefinery - Satinder Kaur Brar 2016-06-02

Platform Chemical Biorefinery: Future Green Chemistry provides information on three different aspects of platform chemical biorefinery. The book first presents a basic introduction to the industry beneficial for university students, then provides engineering details of existing or potential platform chemical biorefinery processes helpful to technical staff of biorefineries. Finally, the book presents a critical review of the entire platform chemical biorefinery process, including extensive global biorefinery practices and their potential environmental and market-related consequences. Platform chemicals are building blocks of different valuable chemicals. The book evaluates the possibility of renewable feedstock-

based platform chemical production and the fundamental challenges associated with this objective. Thus, the book is a useful reference for both academic readers and industry technical workers. The book guides the research community working in the field of platform chemical biorefinery to develop new pathways and technologies in combination with their market value and desirability. Offers comprehensive coverage of platform chemicals biorefineries, recent advances and technology developments, potential issues for preventing commercialization, and solutions Discusses existing technologies for platform chemicals production, highlighting benefits as well their possible adverse effects on the environment and food security Includes a global market analysis of platform chemicals and outlines industry opportunities Serves as a useful reference for both academic readers and industry technical workers

The Illustrated London News - 1859

Scientific American - 1903

Proceedings of the National Academy of Sciences of the United States of America - National Academy of Sciences (U.S.) 2007

Cardiovascular Disability - Institute of Medicine 2010-12-04

The Social Security Administration (SSA) uses a screening tool called the Listing of Impairments to identify claimants who are so severely impaired that they cannot work at all and thus immediately qualify for benefits. In this report, the IOM makes several recommendations for improving SSA's capacity to determine disability benefits more quickly and efficiently using the Listings.

A Treatise on the Mathematical Theory of Elasticity - Augustus Edward Hough Love 1944-01-01

The most complete single-volume treatment of classical elasticity, this text features extensive

editorial apparatus, including a historical introduction. Topics include stress, strain, bending, torsion, gravitational effects, and much more. 1927 edition.

Enzymes in Food Technology - Robert J. Whitehurst 2009-09-03

The second edition of this successful book highlights the widespread use of enzymes in food processing improvement and innovation, explaining how they bring advantages. The properties of different enzymes are linked to the physical and biochemical events that they influence in food materials and products, while these in turn are related to the key organoleptic, sensory and shelf life qualities of foods. Fully updated to reflect advances made in the field over recent years, new chapters in the second edition look at the use of enzymes in the

reduction of acrylamide, in fish processing and in non-bread cereal applications such as flour confectionery. Genetic modification of source organisms (GMO) has been used to improve yields of purer enzymes for some time now but the newer technology of protein engineering (PE) of enzymes has the potential to produce purer, more targeted products without unwanted side activities, and a chapter is also included on this important new topic. Authors have been selected not only for their practical working knowledge of enzymes but also for their infectious enthusiasm for the subject. The book is aimed at food scientists and technologists, ingredients suppliers, geneticists, analytical chemists and quality assurance personnel.

Nonradiative Transitions in Molecules - Société de chimie physique 1970