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Proceedings in Print 1983

Introduction to Nanoscience and Nanotechnology Gabor L. Hornyak 2008-12-22 The maturation of nanotechnology has revealed it to be a unique and distinct discipline rather than a specialization within a larger field. Its textbook cannot afford to be a chemistry, physics, or engineering text focused on nano. It must be an integrated, multidisciplinary, and specifically nano textbook. The archetype of the modern nano textbook, Introduction to Nanoscience and Nanotechnology builds a solid background in characterization and fabrication methods while integrating the physics, chemistry, and biology facets. The remainder of this color text focuses on applications, examining engineering aspects as well as nanomaterials and industry-specific applications in such areas as energy, electronics, and biotechnology. Also available in two course-specific volumes: Introduction to Nanoscience elucidates the nanoscale along with the societal impacts of nanoscience, then presents an overview of characterization and fabrication methods. The authors systematically discuss the chemistry, physics, and biology aspects of nanoscience, providing a complete picture of the challenges, opportunities, and inspirations posed by each facet before giving a brief glimpse at nanoscience in action: nanotechnology. Fundamentals of Nanotechnology surveys the field’s broad landscape, exploring the physical basics such as nanorheology, nanofluidics, and nanomechanics as well as industrial concerns such as manufacturing, reliability, and safety. The authors then explore the vast range of nanomaterials and systematically outline devices and applications in various industrial sectors. Qualifying instructors who purchase either of these volumes (or the combined set) are given online access to a wealth of instructional materials. These include detailed lecture notes, review summaries, slides, exercises, and more. The authors provide enough material for both one- and two-semester courses.

Landmarks in Organo-Transition Metal Chemistry Helmut Werner 2008-12-16 Since the discovery of ferrocene and the sandwich-type complexes, the development of organometallic chemistry took its course like an avalanche and became one of the scientific success stories of the second half of the twentieth century. Based on this development, the traditional boundaries between inorganic and organic chemistry gradually disappeared and a rebirth of the nowadays highly important field of homogeneous catalysis occurred. It is fair to say that despite the fact that the key discovery, which sparked it all off, was made more than 50 years ago, organometallic chemistry remains a young and lively discipline.

100 Years of Physical Chemistry Ian W M Smith 2007-10-31 Compiled to celebrate the centenary of the founding of the Faraday Society in 1903, this collection presents some of the key papers published in Faraday journals over the past one hundred years. The feature articles were all written by leaders in their field, including a number of Nobel Prize winners such as Lord George Porter and John Pople, and cover a breadth of topics demonstrating the wide range of scientific fields which the Faraday Society, and now the RSC Faraday Division, seek to promote. Topics include: Intermolecular Forces; Ultrafast Processes; Astrophysical Chemistry; Polymers; and Electrochemistry. Each article is accompanied by a commentary which puts it in context, describes its influence and shows how the field has developed since its publication. 100 Years of Physical Chemistry: A Collection of Landmark Papers will be welcomed by anyone interested in the historical development of physical chemistry, and will be a valued addition to any library shelf.

Nanochemistry Geoffrey A Ozin 2015-10-09 International interest in nanoscience research has flourished in recent years, as it becomes an integral part in the development of future technologies. The diverse, interdisciplinary nature of nanoscience means effective communication between disciplines is pivotal in the successful utilization of the science. Nanochemistry: A Chemical Approach to Nanomaterials is the first textbook for teaching nanochemistry and adopts an interdisciplinary and comprehensive approach to the subject. It presents a basic chemical strategy for making nanomaterials and describes some of the principles of materials self-assembly over 'all' scales. It demonstrates how nanometre and micrometre scale building blocks (with a wide range of shapes, compositions and surface functionalities) can be coerced through chemistry to organize spontaneously into unprecedented structures, which can serve as tailored functional materials. Suggestions of new ways to tackle research problems and speculations on how to think about assembling the future of nanotechnology are given. Primarily designed for teaching, this book will appeal to graduate and advanced undergraduate students. It is well illustrated with graphical representations of the structure and form of nanomaterials and contains problem sets as well as other pedagogical features such as further reading, case studies and a comprehensive bibliography.

Chalcogenide Materials for Energy Conversion Nicolas Alonso-Vante 2018-04-20 This book addresses electrocatalysis based on chalcogenides, particularly in the nanoscale domain. Special attention is paid to the hydrogen evolution reaction (HER) and the oxygen reduction reaction (ORR). The book provides an introduction to materials synthesis; the basic principles of electrocatalysis; related precious metal versus non-precious metal catalytic center chalcogenides as well as supports; and the role of such supports in stabilizing the catalytic centers. In short: pursuing a bottom-up approach, it covers the properties of this class of electrocatalysts and examines their applications in low-temperature fuel systems such as microfluidic fuel cells for portable devices. Accordingly, it is ideally suited for all professionals and researchers interested in electrochemistry, renewable energy and electrocatalysis, and non-precious metal centers for chemical energy conversion.

Index of Conference Proceedings Received British Library. Lending Division 1988-07

Modern Inorganic Synthetic Chemistry Ruren Xu 2011-01-13 The contributors to this book discuss inorganic synthesis reactions, dealing with inorganic synthesis and preparative chemistry under specific conditions. They go on to describe the synthesis, preparation and assembly of six important categories of compounds with wide coverage of distinct synthetic chemistry systems

Noble Gas Chemistry Felice Grandinetti 2018-06-22 Authored by one of the world's leading experts in the chemistry of lighter noble gases, this comprehensive monograph fills the need for an up-to-date review of the diverse experimental techniques and theoretical methods currently in practice. After reviewing the experiments breaking the paradigm of "non-reactive" noble gases, the physico-chemical background is introduced. Besides the emphasis on gas phase reactions, the author presents other relevant systems, such as chemistry in the bulk phase, under high pressure, and cold matrices. The discussion of gas-phase chemistry of the noble gases covers neutral and ionic compounds, diatomic molecules, complexes with small molecules and metal compounds, up to large clusters.

Introduction to Nanoscience Gabor L. Hornyak 2008-05-15 Tomorrow’s nanoscientist will have a truly interdisciplinary and nano-centric education, rather than, for example, a degree in chemistry with a specialization in nanoscience. For this to happen, the field needs a truly focused and dedicated textbook. This full-color masterwork is such a textbook. It introduces the nanoscale along with the societal impacts of nanoscience, then presents an overview of characterization and fabrication methods. The authors systematically discuss the chemistry, physics, and biology aspects of nanoscience, providing a complete picture of the challenges, opportunities, and inspirations posed by each facet before giving a brief glimpse at nanoscience in action: nanotechnology. This book is written to provide a companion volume to Fundamentals of Nanotechnology. The two companion volumes are also available bound together in the single volume, Introduction to Nanoscience and Nanotechnology Qualifying instructors who purchase either of these volumes (or the combined set) are given online access to a wealth of instructional materials. These include detailed lecture notes, review summaries, slides, exercises, and more. The authors provide enough material for both one- and two-semester courses.

50th Anniversary of Electron Counting Paradigms for Polyhedral Molecules D. Michael P. Mingos 2022-01-01 The 50 Year Anniversary of the development of electron counting paradigms for polyhedral molecules is celebrated in two volumes of Structure and Bonding. Volume 1 covers the historical development, theoretical models and applications to boranes and metalloboranes.

Normal Partitions and Hierarchical Fillings of N-Dimensional Spaces Zhizhin, Gennadiy Vladimirovich 2020-12-25 In the study of the structure of substances in recent decades, phenomena in the higher dimension was discovered that was previously unknown. These include spontaneous zooming (scaling processes), discovery of crystals with the absence of translational symmetry in three-dimensional space, detection of the fractal nature of matter, hierarchical filling of space with polytopes of higher dimension, and the highest dimension of most molecules of chemical compounds. This forces research to expand the formulation of the question of constructing n-dimensional spaces, posed by David Hilbert in 1900, and to abandon the methods of considering the construction of spaces by geometric figures that do not take into account the accumulated discoveries in the physics of the structure of substances. There is a need for research that accounts for the new paradigm of the discrete world and provides a solution to Hilbert's 18th problem of constructing spaces of higher dimension using congruent figures. Normal Partitions and Hierarchical Fillings of N-Dimensional Spaces aims to consider the construction of spaces of various dimensions from two to any finite dimension n, taking into account the indicated conditions, including zooming in on shapes, properties of geometric figures of higher dimensions, which have no analogue in three-dimensional space. This book considers the conditions of existence of polytopes of higher dimension, clusters of chemical compounds as polytopes of the highest dimension, higher dimensions in the theory of heredity, the geometric structure of the product of polytopes, the products of polytopes on clusters and molecules, parallelohedron and stereohedron of Delaunay, parallelohedron of higher dimension and partition of n-dimensional spaces, hierarchical filling of n-dimensional spaces, joint normal partitions, and hierarchical fillings of n-dimensional spaces. In addition, it pays considerable attention to biological problems. This book is a valuable reference tool for practitioners, stakeholders, researchers, academicians, and students who are interested in learning more about the latest research on normal partitions and hierarchical fillings of n-dimensional spaces.

Nano and Microsensors for Chemical and Biological Terrorism Surveillance Jeffrey B.-H. Tok 2008 This unique book is the only current publication that provides readers with a brief, yet concise, collection of the latest advances in chemical and biological agent detection and/or their surveillance. Nano and Microsensors for Chemical and Biological Terrorism Surveillance compiles and gives in-depth detail on several detection schemes so that the reader is provided with a general sense of these micro and nanoscale sensing systems and platforms.

Books in Series 1985 Vols. for 1980- issued in three parts: Series, Authors, and Titles.

Molecular Reaction Dynamics Raphael D. Levine 2009-06-04 Molecular reaction dynamics is the study of chemical and physical transformations of matter at the molecular level. The understanding of how chemical reactions occur and how to control them is fundamental to chemists and interdisciplinary areas such as materials and nanoscience, rational drug design, environmental and astrochemistry. This book provides a thorough foundation to this area. The first half is introductory, detailing experimental techniques for initiating and probing reaction dynamics and the essential insights that have been gained. The second part explores key areas including photoselective chemistry, stereochemistry, chemical reactions in real time and chemical reaction dynamics in solutions and interfaces. Typical of the new challenges are molecular machines, enzyme action and molecular control. With problem sets included, this book is suitable for advanced undergraduate and graduate students, as well as being supplementary to chemical kinetics, physical chemistry, biophysics and materials science courses, and as a primer for practising scientists.

Proceedings of the Royal Irish Academy Royal Irish Academy 1989

Organometallic Chemistry E W Abel 2007-10-31 Organometallic chemistry is an interdisciplinary science which continues to grow at a rapid pace. Although there is continued interest in synthetic and structural studies the last decade has seen a growing interest in the potential of organometallic chemistry to provide answers to problems in catalysis synthetic organic chemistry and also in the development of new materials. This Specialist Periodical Report aims to reflect these current interests reviewing progress in theoretical organometallic chemistry, main group chemistry, the lanthanides and all aspects of transition metal chemistry. Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields the series creates a unique service for the active research chemist, supplying regular critical in-depth accounts of progress in particular areas of chemistry. For over 80 years the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three, volumes covering Inorganic, Organic and Physical Chemistry. For more general coverage of the highlights in chemistry they remain a 'must'. Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged, while others have altered their emphasis along with their titles; some have been combined under a new name whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume.

Index of Conference Proceedings Received British Library. Document Supply Centre 1985

Organometallic Chemistry M. Green 1998 Organometallic chemistry is an interdisciplinary science which continues to grow at a rapid pace. Although there is continued interest in synthetic and structural studies the last decade has seen a growing interest in the potential of organometallic chemistry to provide answers to problems in catalysis synthetic organic chemistry and also in the development of new materials. This Specialist Periodical Report aims to reflect these current interests reviewing progress in theoretical organometallic chemistry, main group chemistry, the lanthanides and all aspects of transition metal chemistry. Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields the series creates a unique service for the active research chemist, supplying regular critical in-depth accounts of progress in particular areas of chemistry. For over 80 years the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three, volumes covering Inorganic, Organic and Physical Chemistry. For more general coverage of the highlights in chemistry they remain a 'must'. Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged, while others have altered their emphasis along with their titles; some have been combined under a new name whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume.

Proceedings of the Royal Irish Academy 1989

Advanced Structural Chemistry Rong Cao 2021-06-28 Advanced Structural Chemistry Discover the relationships between inorganic chemical synthesis, structure, and property with these comprehensive and insightful volumes Advanced Structural Chemistry: Tailoring Properties of Inorganic Materials and their Applications (3 Volume Set) offers readers the opportunity to discover the relationship between the structure and function of matter, develop efficient and precise synthesis methodology, and to understand the theoretical tools for new functional substances. Advanced Structural Chemistry clarifies the relationships between synthesis and structure, as well as structure and property, both of which are central to the creation of new materials with unique functions. In addition to subjects like the syntheses of metal-oxide clusters, metal-organic cages, and metal-organic frameworks with tailored optical, electric, ferroelectric, magnetic, adsorption, separation, and catalytic properties, the accomplished editor Rong Cao provides readers with information on a wide variety of topics, such as: Coordination-assembled metal-organic macrocycles and cages, including metallacycles and metallacages The structural chemistry of metal-oxo clusters, including the oxo clusters of transition metal, main group metal, and lanthanides Synthetic approaches, structural diversities, and biological aspects of molybdenum-based heterometallic sulfide clusters and coordination polymers Group 11-15 metal chalcogenides, including discrete chalcogenide clusters synthesized in ionic liquids The structures of metal-organic frameworks, including one-, two-, and three-dimensional MOFs Perfect for inorganic chemists, structural chemists, solid state chemists, material scientists, and solid state physicists, Advanced Structural Chemistry also belongs on the bookshelves of catalytic and industrial chemists who seek to improve their understanding of the structure and functions of inorganic materials.

Proceedings of the Fifth International Symposium on Diamond Materials Electrochemical Society. Meeting 1998

Surface Organometallic Chemistry: Molecular Approaches to Surface Catalysis Jean-Marie Basset 2012-12-06 Surface organometallic chemistry is a new field bringing together researchers from organometallic, inorganic, and surface chemistry and catalysis. Topics ranging from reaction mechanisms to catalyst preparation are considered from a molecular basis, according to which the "active site" on a catalyst surface has a supra-molecular character. This. the first book on the subject, is the outcome of a NATO Workshop held in Le Rouret. France, in May. 1986. It is our hope that the following chapters and the concluding summary of recommendations for research may help to provide a definition of surface organometallic chemistry. Besides catalysis. the central theme of the Workshop, four main topics are considered: 1) Reactions of organometallics with surfaces of metal oxides, metals. and zeolites; 2) Molecular models of surfaces, metal oxides, and metals; 3) Molecular approaches to the mechanisms of surface reactions; 4) Synthesis and modification of zeolites and related microporous solids. Most surface organometallic chemistry has been carried out on amorphous high-surf ace-area metal oxides such as silica. alumina. magnesia, and titania. The first chapter. contributed by KNOZINGER. gives a short summary of the structure and reactivity of metal oxide surfaces. Most of our understanding of these surfaces is based on acid base and redox chemistry; this chemistry has developed from X-ray and spectroscopic data, and much has been inferred from the structures and reactivities of adsorbed organic probe molecules. There are major opportunities for extending this understanding by use of well-defined (single crystal) oxide surfaces and organometallic probe molecules.

Faraday Discussions of the Chemical Society 2001

Metal Clusters in Chemistry Sir Jack Lewis 1983

Organometallic Chemistry Royal Society of Chemistry (Great Britain) 2008 Organometallic chemistry is an interdisciplinary science which continues to grow at a rapid pace. Although there is continued interest in synthetic and structural studies the last decade has seen a growing interest in the potential of organometallic chemistry to provide answers to problems in catalysis synthetic organic chemistry and also in the development of new materials. This Specialist Periodical Report aims to reflect these current interests reviewing progress in theoretical organometallic chemistry, main group chemistry, the lanthanides and all aspects of transition metal chemistry.Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields the series creates a unique service for the active research chemist, supplying regular critical in-depth accounts of progress in particular areas of chemistry.For over 80 years the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three, volumes covering Inorganic, Organic and Physical Chemistry. For more general coverage of the highlights in chemistry they remain a 'must'.Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged, while others have altered their emphasis along with their titles; some have been combined under a new name whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume.

Mass and Energy Balances Seyed Ali Ashrafizadeh 2018-01-10 This textbook introduces students to mass and energy balances and focuses on basic principles for calculation, design, and optimization as they are applied in industrial processes and equipment. While written primarily for undergraduate programs in chemical, energy, mechanical, and environmental engineering, the book can also be used as a reference by technical staff and design engineers interested who are in, and/or need to have basic knowledge of process engineering calculation. Concepts and techniques presented in this volume are highly relevant within many industrial sectors including manufacturing, oil/gas, green and sustainable energy, and power plant design. Drawing on 15 years of teaching experiences, and with a clear understanding of students' interests, the authors have adopted a very accessible writing style that includes many examples and additional citations to research resources from the literature, referenced at the ends of chapters.

Proceedings of the Royal Society of London Royal Society (Great Britain) 1990

Organometallic Chemistry Ian J S Fairlamb 2009-09-30 Organometallic chemistry is an interdisciplinary science which continues to grow at a rapid pace. Although there is continued interest in synthetic and structural studies, the last decade has seen a growing interest in the potential of organometallic chemistry to provide answers to problems in catalysis, synthetic organic chemistry and also in the development of new materials. Each volume in the series is published either annually or biennially and is a superb reference point for researchers.

Protected Metal Clusters: From Fundamentals to Applications 2015-09-06 Protected Metal Clusters: From Fundamentals to Applications surveys the fundamental concepts and potential applications of atomically precise metal clusters protected by organic ligands. As this class of materials is now emerging as

a result of breakthroughs in synthesis and characterization that have taken place over the last few years, the book provides the first reference with a focus on these exciting novel nanomaterials, explaining their formation, and how, and why, they play an important role in the future of molecular electronics, catalysis, sensing, biological imaging, and medical diagnosis and therapy. Surveys the fundamental concepts and potential applications of atomically precise metal clusters protected by organic ligands. Provides well-organized, tutorial style chapters that are ideal for teaching and self-study In-depth descriptions by top scientists in the field Presents the state-of-the art of protected metal clusters and their future prospects

Issues in Chemistry and General Chemical Research: 2011 Edition 2012-01-09 Issues in Chemistry and General Chemical Research: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Chemistry and General Chemical Research. The editors have built Issues in Chemistry and General Chemical Research: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Chemistry and General Chemical Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Chemistry and General Chemical Research: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Metal-Ligand Interactions: From Atoms, to Clusters, to Surfaces Dennis R. Salahub 2012-12-06 Metal-ligand interactions are currently being studied in different fields, from a variety of points of view, and recent progress has been substantial. Whole new classes of compounds and reactions have been found; an arsenal of physical methods has been developed; mechanistic detail can be ascertained to an increasingly minute degree; and the theory is being developed to handle systems of ever-growing complexity. As usual, such multidisciplinarity leads to great opportunities, coupled with great problems of communication between specialists. It is in its promotion of interactions across these fields that Metal-Ligand Interactions: From Atoms, to Clusters, to Surfaces makes its timely contribution: the tools, both theoretical and experimental, are highly developed, and fundamental questions remain unanswered. The most fundamental of these concerns the nature of the microscopic interactions between metal atoms (clusters, surfaces) and ligands (atoms, molecules, absorbates, reagents, products) and the changes in these interactions during physical and chemical transformation. In Metal-Ligand Interactions, leading experts discuss the following, vital aspects: ab initio theory, semi-empirical theory, density functional theory, complexes and clusters, surfaces, and catalysis.

Metal-Ligand Interactions in Chemistry, Physics and Biology N. Russo 2012-12-06 Proceedings of the NATO Advanced Study Institute, held in Cetraro (CS) Italy, from 1-12 September 1998

Encyclopedia of Interfacial Chemistry 2018-03-29 Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry summarizes current, fundamental knowledge of interfacial chemistry, bringing readers the latest developments in the field. As the chemical and physical properties and processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities, its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro-catalysts in food production, pollution control, energy conversion and storage, medical applications requiring biocompatibility, drug delivery, and more. This book provides an interdisciplinary view that lies at the intersection of these fields. Presents fundamental knowledge of interfacial chemistry, surface science and electrochemistry and provides cutting-edge research from academics and practitioners across various fields and global regions

The Chemistry of Metal Cluster Complexes Duward F. Shriver 1990 Seven chapters summarize the current status of organometallic cluster chemistry from the viewpoints of synthesis, structure and bonding, ligand substitution reactions, ligand transformations, polyhedral rearrangement, cluster fragmentation reactions, and metal clusters as homogeneous catalysts. An eighth provides an extensive bibliography of reviews for the period from 1965 to 1988. Annotation copyrighted by Book News, Inc., Portland, OR

Modern Supramolecular Gold Chemistry Antonio Laguna 2008-09-26 Filling a gap in our systematic knowledge of gold, this monograph covers the fundamental aspects, while also considering new applications of gold compounds in catalysis, as nanoparticles, and their potential application as luminescent compounds. Written by an eminent team of authors from academia, the book analyzes the current status of gold chemistry, its special characteristics, oxidation states and main type of complexes, before going on to look at the synthesis of supramolecular aggregates due to the formation of gold-gold, gold-metal interactions or other secondary bonds. Final sections deal with LEDs, solvoluminescent and electroluminescent materials, liquid crystals and catalysis. While of interest to advanced chemistry students, this book is also useful for researchers interested in the chemistry of gold and its applications, as well as those involved in metal-metal interactions, heteronuclear chemistry or in the optical properties of coordination compounds.

Journal and Proceedings of the Royal Society of New South Wales Royal Society of New South Wales 1995 Includes list of members.

Handbook of Computational Chemistry Jerzy Leszczynski 2012-01-14 This handbook is a guide to current methods of computational chemistry, explaining their limitations and advantages and providing examples of their applications. The first part outlines methods, the balance of volumes present numerous important applications.

Faraday Symposia of the Royal Society of Chemistry Royal Society of Chemistry (Great Britain). Faraday Division 1980

Proceedings of the Royal Society of Canada Royal Society of Canada 1995