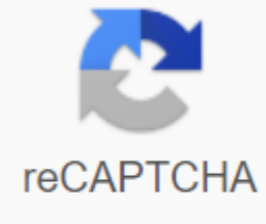




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Industrial Inorganic Chemicals brings together authorized contributions from renowned experts to form a comprehensive, sector-by-sector review of the contemporary inorganic chemical industry, with a global vision of its importance. It shows how different parts of the industry integrate and supply others, placing production and consumption rates in a relative and absolute perspective. The chapters cover inorganic chemicals of commodities and specialties, with the production and uses of derivative products described in detail. The book describes how the past two decades have witnessed a clean-up of an industry with a reputation for harming health and environments. It shows the role in this of tightening legislation and practical action, with particular reference to metal smelting and physical treatment and the use of production by-products. It also addresses perceived deficiencies in teaching pure chemistry courses, which often do not prepare graduates for entry into manufacturing. When discussing this topic, the book will be useful for undergraduate students and others who are not familiar with industrial design. Industrial Inorganic Chemicals is ready to be a pillar of the reading lists of many students and graduates in applied chemistry, physics and inorganic, and chemical engineering, for some years to come. It will prepare industry teachers and professionals with valuable work knowledge about the state of the industry, and the role of the scientist within it. This book provides an up-to-date study of modern industrial inorganic chemistry in a clear and concise manner. The production processes are described in great detail, aspects such as the arrangement of raw materials and energy consumption, the economic importance of the product and technical applications, as well as ecological problems are discussed. From the reviews of the previous edition: '... In general, it is an extremely useful and authorized reference book dealing with an issue in which it is often difficult to obtain up-to-date information...'—Chemistry and industry 'One of the few available texts that concisely describe the current state of industrial inorganic chemistry...'—The New York Public Library... and as for the modern uses of inorganic chemistry, I would recommend this book as a welcome addition to any professional library...'—Chemtech This book fills an important niche in its sector. Scientists and industrial engineers, academics and students can be recommended to follow with the reasonable confidence that the most important areas are described...'—Endeavour... fills an existing gap in the market. —Journal of Chemical Technology and Biotechnology Inorganic chemistry is of great economic importance and it provides not only metals, fertilizers, building materials, pigments and glass, but also countless raw materials for organic organic chemicals Many modern industrial products (video cassettes, optical fibers or microelectronics chips) would be inconceivable without the application of industrial inorganic chemistry. This book provides a complete description of all these areas: Details about manufacturing processes, important economic aspects, ecological consequences, energy consumption and raw materials, and many other facts and figures are compiled to facilitate reference. The book is aimed at students, university professors, chemists and industry engineers, entrepreneurs and lawyers. You will find reliable and detailed information that is difficult to obtain from other sources, as well as extensive references and a guide to further reading. The particular value of this book lies in its clear descriptions and its emphasis on the interrelationship between industrial and economic factors. This book provides an up-to-date study of modern industrial inorganic chemistry in a clear and concise manner. The production processes are described in great detail, aspects such as the arrangement of raw materials and energy consumption, the economic importance of the product and technical applications, as well as ecological problems are discussed. From the reviews of the previous edition: '... In general, it is an extremely useful and authorized reference book dealing with a topic where it is often difficult to obtain up-to-date information. ...' Chemistry and Industry 'One of the few available texts that concisely describe the current state of industrial inorganic chemistry. ...' The New York Public Library '... and as for the modern uses of inorganic chemistry, I would recommend this book as a welcome addition to any professional library...' Chemtech 'This book fills an important niche in its sector. Industrial scientists and engineers, academics and students may be advised to harass them with reasonable confidence that the most important areas are described. ...' Endeavour '... fills an existing gap in the market. Journal of Chemical Technology and Biotechnology' ... In general,

it is an extremely useful and authorized reference book dealing with a topic where it is often difficult to obtain up-to-date information. ...' Chemistry and Industry 'One of the few available texts that concisely describe the current state of industrial inorganic chemistry. ...' The New York Public Library '... and as for the modern uses of inorganic chemistry, I would recommend this book as a welcome addition to any professional library...' Chemtech 'This book fills an important niche in its sector. Scientists and industrial engineers, academics and students may be advised to harass them with reasonable confidence that the areas Important. ...' Endeavour '... fills an existing gap in the market. Journal of Chemical Technology and Biotechnology Industrial Inorganic Chemistry joins the postgraduate-level textbooks on Industrial Chemistry by Mark A. Benvenuto. It focuses specifically on inorganic processes, from the largest industrial process for the production of large chemicals and inorganic metals, to and including smaller niche processes that have become extremely important to maintain current quality of life. The book provides a study on the production of essential elements and compounds, such as sulfuric acid, calcium carbonate, fertilizers, as well as numerous metals and alloys. In addition to the fundamental scientific principles, each chapter includes discussions on environmental impacts: raw material mining, by-product creation, pollution and waste generation, all of which have become key factors for the possible implementation of greener methods. The author also highlights the ways in which industry has begun to make industrial inorganic processes more environmentally benign. It examines the main processes of inorganic chemistry, their effect on daily life and current efforts to improve processes or adapt green chemical production. Provides teaching links between the theoretical content of the conference and current large-scale chemical processes. Valuable for students in Inorganic Chemistry, Industrial Chemistry, Chemical Engineering and Materials Sciences. Clearly explains the principles of inorganic pollutant behavior in order to explore available remediation technologies Provides the design, operation and advantages or disadvantages of the various remediation technologies Presents a clear exposure of metals, including topics such as preparations, structures and bonding, reaction and properties, and complex formation and hijacking clearly explains the principles of inorganic pollutant behavior in order to explore available remediation technologies. Design, Operation, and Advantages or Disadvantages of the Various Remediation Technologies Presents a clear metal exposure, including topics such as preparations, structures and union, reaction and properties, and complex training and hijacking You currently do not have access to this book, however you can purchase separate chapters directly from the table of contents or purchase the full version. Buy the book

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