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With demand for petroleum products increasing worldwide, there is a tendency for existing refineries to seek new approaches to optimize efficiency and throughput. In addition, changes in product specifications due to environmental regulations greatly influence the development of petroleum refining technologies. These factors underlie the need for this fifth edition of The Chemistry and ...

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The Chemistry and Technology of Edible Oils and Fats and ...

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Chemistry and Technology of Fuels and Oils | Home

Technology. The innovative products of chemistry lead to cutting edge advancements—applied technology in medical devices, aerospace, computing, cars, fuels and more. That's what chemistry enables: technological advancements that drive innovation, create jobs and enhance safety in our everyday lives. In 2019, chemical companies invested more than \$10 billion in research and development.

Technology Innovation | Products of Chemistry

UCT Prague is the largest chemistry oriented university in the Czech Republic, which focuses not only on teaching and research in chemistry, chemical technology, biochemistry, biotechnology, and materials engineering, but also gives us, researchers, the ability to explore relatively new fields such as artificial life, as mentioned above.

University of Chemistry and Technology, Prague ...

A useful reference for scientists and engineers in the petroleum industry as well as in the catalyst manufacturing industry, this book introduces readers to the science and technology of petroleum, beginning with its formation in the ground and culminating in the production of a wide variety of products and petrochemical intermediates.

The Chemistry and Technology of Petroleum (Chemical ...

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Chemistry and Technology (BSc) - DTU

Many excellent volumes have been written on the chemistry of cellulose and its derivatives. Judging by the number of conferences which have been assembled to deal with the topic, cellulose and its derivatives continue to arouse great scientific interest. Matching this interest has been the development in copolymer science and technology.

The Chemistry and Technology of Cellulosic Copolymers ...

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The Chemistry and Technology of Magnesia by Mark A. Shand ...

chemistry and technology of silicones Sep 05, 2020 Posted By Arthur Hailey Publishing TEXT ID f37380b4 Online PDF Ebook Epub Library technology of silicones subject physical earth sciences chemistry general chemistry 1st edition publisher elsevier s t 09 1968 imprint academic press language english

A Complete Guide to Magnesia-From Mining to End Use Often relegated to footnote status in texts, magnesia is nevertheless a valuable substance widely used in applications ranging from wastewater treatment to catalysis. The Chemistry and Technology of Magnesia fills the long-standing gap in the literature with a comprehensive, one-stop reference to "all things magnesia." The book brings together the many strands of information on magnesium compounds, their production, testing and evaluation, technology, applications, and markets. Opening with an introductory history of the chemical, it covers the life cycle of magnesium: natural and synthetic production, and uses in different fields including the environmental, health, and agricultural industries. Readers will find the section on health and safety issues particularly relevant. Chapters include: " The History of Magnesia " Synthetic Magnesia " Pulp Applications " Environmental Applications " Magnesia Cements " Furnaces and Kilns " Post Calcination Processing " Other Magnesia Products " Mining and Processing Magnesite " The Physical and Chemical Properties of Magnesium Oxide " Water and Wastewater Application for Magnesia Products " Magnesia in Polymer Applications " The Role of Magnesium in Animal, Plants, and Human Nutrition " Magnesium Salts and Magnesium Metal " The Formation and Occurrence of Magnesite " Calcination of Magnesium Hydroxide and Carbonate " Miscellaneous Magnesia Applications

Chemistry and Technology of Silicones retains the nature of a monograph despite its expanded scope, giving the reader in condensed form not only a wide-ranging but also a thorough review of this rapidly growing field. In contrast to some other monographs on organosilicon compounds that have appeared in the interim, the silicones occupy in this edition the central position, and the technological part of the work is entirely devoted to them. This book comprises 12 chapters, and begins with a general discussion of the chemistry and molecular structure of the silicones. The following chapters then discuss preparation of silanes with nonfunctional organic substituents; monomeric organosilicon compounds RnSiX4-n; and organosilanes with organofunctional groups. Other chapters cover preparation of polyorganosiloxanes; the polymeric organosiloxanes; other organosilicon polymers; production of technical silicone products from polyorganosiloxanes; properties of technical products; applications of technical silicone products in various branches of industry; esters of silicic acid; and analytical methods. This book will be of interest to practitioners in the fields of molecular chemistry.

This book is a "world first", since the furfural industry has been traditionally secretive to the point of appearing shrouded in clouds of mystery. Even renowned encyclopedic works have published but scant and often erroneous information on the subject. Striking a healthy balance between theory and practice, the book leads the reader from reaction mechanisms and kinetics to the technology of making furfural by various old and new processes, using conventional raw materials or sulfite waste liquor. Detailed discussions of means of increasing the yield are of great chemical and technological interest as well as of immense economic importance. From furfural proper, the treatise shifts to the fascinating field of wanted and unwanted by-products ranging from largely unutilized carboxylic acids to troublesome impurities such as 5-methyl furfural and 2-furyl methyl ketone, and then to extremely valuable serendipitous flavor compounds such as diacetyl and 2,3-pentanedione. A wide variety of derivatives are discussed; considerable space is devoted to polytetrahydrofuran, an important building block of stretchable synthetic fibers, while furan resins from both furfural and furfuryl alcohol are given the attention commensurate with their industrial importance. Notable supplementary chapters cover the in-line measurement of furfural, the treatment of furfural waste water, and various aspects of corrosion. A chapter on the applications of furfural elaborates not only traditional uses in extracting petroleum and vegetable oils but also the sensational discovery that furfural is a highly effective "indirect nematocide". Without becoming toxic, it changes the microflora of the soil by stimulating bacteria antagonistic to nematodes, thereby reducing the nematode population to zero, at an unprecedented low price. It is believed that this application will be the principal outlet for furfural in the future. A comprehensive list of physical properties, some never published before, make the book an indispensable companion for producers, users and researchers alike.

Surfactants are used throughout industry as components in a huge range of formulated products or as effect chemicals in rethroduction or processing of other materials. A detailed understanding of the basis of their activity is required by all those who use surfactants, yet the new graduate or postgraduate chemist or chemical engineer will generally have little or no experience of how and why surfactants work. Chemistry & Technology of Surfactants is aimed at new graduate or postgraduate level chemists and chemical engineers at the beginning their industrial careers and those in later life who become involved with surfactants for the first time. The book is a straightforward and practical survey of the chemistry of surfactants and their uses, providing a basic introduction to surfactant theory, information on the various types of surfactant and some application details. This will allow readers to build on their scientific education the concepts and principles on which the successful use of surfactants, across a wide range of industries, is based.

The demand for coal use (for electricity generation) and coal products, particularly liquid fuels and chemical feedstocks, is increasing throughout the world. Traditional markets such as North America and Europe are experiencing a steady increase in demand whereas emerging Asian markets, such as India and China, are witnessing a rapid surge in demand for clean liquid fuels. A detailed and comprehensive overview of the chemistry and technology of coal in the twenty-first century. The Chemistry and Technology of Coal, Third Edition also covers the relationship of coal industry processes with environmental regulations as well as the effects of combustion products on the atmosphere. Maintaining and enhancing the clarity of presentation that made the previous editions so popular, this book: Examines the effects of combustion products on the atmosphere Details practical elements of coal evaluation procedures Clarifies misconceptions concerning the organic structure of coal Discusses the physical, thermal, electrical, and mechanical properties of coal Analyzes the development and current status of combustion and gasification techniques In addition to two new chapters, Coal Use and the Environment and Coal and Energy Security, much of the material in this edition has been rewritten to incorporate the latest developments in the coal industry. Citations from review articles, patents, other books, and technical articles with substantial introductory material are incorporated into the text for further reference. The Chemistry and Technology of Coal, Third Edition maintains its initial premise: to introduce the science of coal, beginning with its formation in the ground to the production of a wide variety of products and petrochemical intermediates in the twenty-first century. The book will prove useful for scientists and engineers already engaged in the coal and/or catalyst manufacturing industry looking for a general overview or update on the clean coal technology as well as professional researchers and students in chemistry and engineering.

This second edition has been designed to monitor the progress in development over the past few years and to build on the information given in the first edition. It has been extensively revised and updated. My thanks go to all who have contributed to this work. D.F.W. May 1996 Preface to the first edition This book is the result of a group of development scientists feeling that there was an urgent need for a reference work that would assist chemists in understanding the science involved in the development of new products. The approach is to inform in a way that allows and encourages the reader to develop his or her own creativity in working with marketing colleagues on the introduction of new products. Organised on a product category basis, emphasis is placed on formulation, selection of raw materials, and the technology of producing the products discussed. Performance considerations, safety, product liability and all aspects of quality are covered. Regulations governing the production and sale of cosmetic products internationally are described, and sources for updated information provided. Throughout the book, reference is made to consumer pressure and environmental issues—concerns which the development scientist and his or her marketing counterpart ignore at their own, and their employer's peril. In recent years, many cosmetic fragrances and toiletry products have been converted from aerosols to mechanically pressurized products or sprays, and these are described along with foam products such as hair conditioning mousses.

Many excellent volumes have been written on the chemistry of cellulose and its derivatives. Judging by the number of conferences which have been assembled to deal with the topic, cellulose and its derivatives continue to arouse great scientific interest. Matching this interest has been the development in copolymer science and technology. In both instances the driving force has been the search for products having useful, new or interesting properties. It appeared inevitable that these two concepts would be brought together at some time in the research and development of cellulosic copolymers. That time has arrived. In assembling this text our aim was to present an informative account of the chemistry and technology of cellulosic copolymers. As such, we intended that the contents be of interest to all those concerned with the production and use of cellulosic products whether in academic or industrial circles. Sections of the text should be of value in undergraduate and post-graduate teaching, provided the student is given guidance in following the text. The volume is divided into eight chapters, each dealing with factors which are relevant to an understanding of cellulosic copolymers. Each chapter carries its own bibliography and is reasonably self-contained.

Carbodiimides play an important role as condensation agents in the synthesis of polypeptides, polynucleotides, polysaccharides and numerous other chemical transformations. Chemistry and Technology of Carbodiimides is the first book to examine both the chemistry and technology of carbodiimides. This book provides a comprehensive and in-depth coverage of the synthesis and reactions of this industrially important class of chemicals while focusing on industrial applications, including the \$M-sectors of biochemical synthesis, pharmaceuticals, polymers, ceramics, and herbicides. Written by a well-known authority in the field this book will prove a valuable reference tool for anyone working in this area of chemistry.

A fundamental understanding of polymers has evolved in recent years concurrent with advances in analytical instrumentation. The theories and methodologies developed for the galacturonan biopolymers (collectively called pectins) have seldom been discussed comprehensively in the context of the new knowledge. This text explains the scientific and technical basis of many of the practices followed in processing and preparing foods fabricated with or containing pectin. The material is presented in a very readable fashion for those with limited technical training. Structural analysis Commercial extractions methods Pectin formulations and tropical fruit analysis Molecular mechanisms of gelatin Enzymology Polymer conformation techniques Analytical methods of polymer analysis

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