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the 6th volume of green chemical processing considers sustainable chemistry in the context of innovative and emerging technologies explaining how they can support the greening of industry processes the american chemical society s 12 principles of green chemistry are woven throughout this text as well as the series to which this book belongs

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 pressurised products or sprays and these are described along with foam products such as hair conditioning mousses

the chemistry and technology of petroleum third edition fully covers the subject from the underground formation of petroleum to recovery of refined products the third edition contains additional chapters on the structure of petroleum refining heavy feedstocks instability and incompatibility in petroleum products environmental aspects of refining and much more

this is a completely revised and updated edition of the comprehensive and widely used survey of cereal technology the first section describes the botany classification structure composition nutritional importance and uses of wheat corn oats rye sorghum rice and barley as well as six other grains the book also details the latest methods of producing cleaning and storing these grains the second

section of the book offers current information on the technological and engineering principles of feed milling flour milling baking malting brewing manufacturing breakfast cereals snack food production wet milling starch and oil production from grains rice processing and other upgrading procedures applied to cereal grains this section also explains the value and utilization of by products and examines many rarely discussed processing methods in addition the book provides reviews of current knowledge on the dietary importance of cereal proteins lipids fibre vitamins minerals and anti nutrient factors as well as the effects of processing methods on these materials

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 magnesia 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

paraffins chemistry and technology deals primarily with fundamentals of those methods and processes for the manufacture and chemical treatment of the paraffinic hydrocarbons the present book the first edition of which was published by the akademie verlag gmbh berlin in 1956 and an unchanged reprint of which of the first edition was necessary in 1959 has been revised in 1962 for translation into english the book begins with a discussion of the production and manufacture of the paraffinic hydrocarbons separate chapters then cover the catalytic hydrogenation of carbon monoxide by means

modern flavours and fragrances are complex formulated products containing blends of aroma compounds with auxiliary materials enabling desirable flavours or fragrances to be added to a huge range of products from the identification and synthesis of materials such as cinnamaldehyde and vanillin in the 19th century to the current application of advanced analytical techniques for identification of trace

aroma compounds present in natural materials the flavour and fragrance industry has developed as a key part of the worldwide specialty chemicals industry with contributions mainly coming from industry based experts chemistry technology of flavours and fragrances provides a detailed overview of the synthesis chemistry and application technology of the major classes aroma compounds with separate chapters covering important technical aspects such as the stability of aroma compounds structure odour relationships and identification of aroma compounds this book will be essential reading for both experienced and graduate level entrants to the flavour fragrance industry it will also serve as an important introduction to the subject for chemists and technologists in those industries that use flavours and fragrances eg food cosmetics toiletries and household products david rowe is technical manager at de monchy aromatics ltd poole uk

in the chemistry and technology of mixed paints the author provides a comprehensive guide to the science behind paint production through detailed analysis of the chemical makeup of paints which provides insight into the complex world of color and texture with clear illustrations and accessible language this book is an essential read for anyone interested in the science of color this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

thoroughly rewritten and updated to reflect the latest advances in technology and highlighting the environmental aspects now being emphasized within the coal industry this second edition of a highly acclaimed reference text provides a comprehensive overview of coal science covering topics ranging from the origins of coal to mining and contemporary uses maintaining and enhancing the clarity of presentation that made the first edition so popular the chemistry and technology of coal second edition considers the implications of the clean air act 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

polymeric products are used widely in the construction industry because they offer a range of desirable performance properties not

available from traditional materials development of these products continues in a number of major research and development programmes within the construction materials sector aimed at improving the performance durability and applicational properties of these materials it seems certain that their use will increase as their overall performance is developed and as the industry becomes more familiar with the techniques required to apply these materials and the benefits they offer the purpose of this book is to familiarise the reader with the range of thermosetting polymeric materials available for construction applications and to provide sound information on the properties and applications of these important materials professional engineers involved in the specification application and testing of these materials will find this book a compact authoritative and comprehensive source of information on these materials chemists and technologists involved in developing new or improved formulations will find in this book much to inform their work particularly in the important area of applicational properties

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 r_nSiX_4 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 on chemistry and technology of natural and synthetic dyes and pigments is a priority publication by intechopen publisher and it relates to sustainable approaches towards green chemical processing of textiles specifically on dyeing with natural dyes and pigments as well as dyeing with eco safe synthetic dyes and chemicals this book includes the following chapters an introductory editorial chapter on bio mordants bio dyes and bio finishes a review of natural dyes and pigments and its application pantone like shade generation with natural colorants colour based natural dyes and pigments printing with natural dyes and pigments functional property and functional finishes with natural dyes and pigments eco safe synthetic dyes and chemicals and a miscellaneous review on dyed textiles and clothing including natural dye based herbal textiles this new book is expected to be useful for dyers of the textile industry as well as to

the future researchers in this field

since the early 1970s the subject of biodegradable plastics has acquired a rapidly growing literature of academic research papers it has also acquired a formidable volume of patent documentation and all this has been over whelmed by an astonishing quantity of serious media and political com ment a new entrant into any technical arena w ould in most technologies simply visit their technical library and pick up a text book on the subject in the expectation of absorbing the basic facts before launching into the daily task of updating and evaluating scientific conferences have produced many substantial volumes carrying the word biodegradable on their covers and there has even been a specialist monograph on the topic of bacterially produced polymers but surprisingly no book has yet emerged providing a general survey of the subject having devoted half my pro fessional career to the subject of biodegradable plastics i agreed to take on the editorial job of producing such a book when asked by the publisher i knew that the task of finding expert specialists and persuading them to contribute dispassionate accounts of their specialisms would not be easy but the difficulties that i have encountered were far greater than i expected some were simply too busy others were involved in patent disputes or commercial negotiations in giving an account of the work that i and my students carried out at brunei university i believe that i have written in a manner that displays enthusiasm without prejudice

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