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Other applications of oleochemicals include the production of lubricants, solvents, biodiesel and bioplastics. Due to the use of methyl esters in biodiesel production, they represent the fastest growing sub-sector of oleochemical production in recent years.: 15. Oleochemical industry development Europe

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Oleochemical Manufacture and Applications presents an overview of oleochemicals at the research and professional levels, with an emphasis on industrial production and applications. Approximately half of the chapters consider general matters, while the other half deal with applications. Authors are drawn from industrial and academic laboratories around the world. The book is an invaluable reference for chemists and technologists working on the production and use of

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oleochemicals, analytical chemists, quality assurance personnel, and lipid chemists in academic research laboratories.

This textbook introduces the industrial production and processing of natural resources. It is divided into six major topics (fats and oils, carbohydrates, lignin, terpenoids, other natural products, biorefinery), which are divided into a total of 20 chapters. Each chapter is self-contained and therefore a compact learning unit, which can be worked on by students in self-study or presented by lecturers. Clear illustrations, flow diagrams, apparatus drawings and photos facilitate the understanding of the subject matter. All chapters end with a succinct summary, the "Take Home Messages". Each chapter is supplemented by ten short test questions, which can be solved quickly after working through the chapter; the answers are at the end of the

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book. All chapters contain bibliographical references that focus on essential textbooks and reference works. As a prior knowledge, only basic knowledge of chemistry is required.

Most modern surfactants are readily biodegradable and exhibit low toxicity in the aquatic environment, the two criteria for green surfactants. However the majority are synthesised from petroleum, so over the past decade the detergent industry has turned its attention to developing greener routes to create these surfactants via renewable building blocks. Surfactants from Renewable Resources presents the latest research and commercial applications in the emerging field of sustainable surfactant chemistry, with emphasis on production technology, surface chemical properties, biodegradability, ecotoxicity, market trends, economic viability and life-cycle analysis. Reviewing

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traditional sources for renewable surfactants as well as recent advances, this text focuses on techniques with potential for large scale application. Topics covered include: Renewable hydrophobes from natural fatty acids and forest industry by-products Renewable hydrophiles from carbohydrates, amino acids and lactic acid New ways of making renewable building blocks; ethylene from renewable resources and complex mixtures from waste biomass Biosurfactants Surface active polymers This book is a valuable resource for industrial researchers in companies that produce and use surfactants, as well as academic researchers in surface and polymer chemistry, sustainable chemistry and chemical engineering.

Energy technologies have attracted great attention due to the fast development of sustainable energy. Biodiesel technologies have been

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identified as the sustainable route through which overdependence on fossil fuels can be reduced. Biodiesel has played a key role in handling the growing challenge of a global climate change policy. Biodiesel is defined as the monoalkyl esters of vegetable oils or animal fats.

Biodiesel is a cost-effective, renewable, and sustainable fuel that can be made from vegetable oils and animal fats. Compared to petroleum-based diesel, biodiesel would offer a non-toxicity, biodegradability, improved air quality and positive impact on the environment, energy security, safe-to-handle, store and transport and so on. Biodiesels have been used as a replacement of petroleum diesel in transport vehicles, heavy-duty trucks, locomotives, heat oils, hydrogen production, electricity generators, agriculture, mining, construction, and forestry equipment. This book describes a comprehensive overview, covering a broad range of topics on biodiesel technologies and allied applications.

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Chapters cover history, properties, resources, fabrication methods, parameters, formulations, reactors, catalysis, transformations, analysis, in situ spectroscopies, key issues and applications of biodiesel technology. It also includes biodiesel methods, extraction strategies, biowaste utilization, oleochemical resources, non-edible feedstocks, heterogeneous catalysts, patents, and case-studies. Progress, challenges, future directions, and state-of-the-art biodiesel commercial technologies are discussed in detail. This book is an invaluable resource guide for professionals, faculty, students, chemical engineers, biotechnologists, and environmentalists in these research and development areas.

“ Microbial Enzymes: Roles and applications in industry ” offers an essential update on the field of microbial biotechnology, and presents

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the latest information on a range of microbial enzymes such as fructosyltransferase, laccases, amylases, lipase, and cholesterol oxidase, as well as their potential applications in various industries. Production and optimisation technologies for several industrially relevant microbial enzymes are also addressed. In recent years, genetic engineering has opened up new possibilities for redesigning microbial enzymes that are useful in multiple industries, an aspect that the book explores. In addition, it demonstrates how some of the emerging issues in the fields of agriculture, environment and human health can be resolved with the aid of green technologies based on microbial enzymes. The topics covered here will not only provide a better understanding of the commercial applications of microbial enzymes, but also outline futuristic approaches to use microbial enzymes as driver of industrial sustainability. Lastly, the book is intended to

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provide readers with an overview of recent applications of microbial enzymes in various industrial sectors, and to pique researchers' interest in the development of novel microbial enzyme technologies to meet the changing needs of industry.

Renewable Bioresources: scope and modification for non-food applications is the first text to consider the broad concept of renewable materials from the socio-economic aspects through to the chemical production and technical aspects of treating different raw products. The text sets the context of the renewables debate with key opening chapters on green chemistry, and the current situation of US and EU policy regarding sustainability and industrial waste. The quantitative and technical scope and production of renewable resources is then discussed with material looking at integral valorisation, the primary

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production of raw materials, downstream processing, and the identification of renewable crop materials. The latter part of the book concludes with a discussion on the uses for renewable materials such as carbohydrates, woods, fibres, biopolymers, lipids and proteins in different industrial applications, including a key chapter on the high value-added industries. Covers the broad concept of renewable resources from different points of view. Takes readers through the identification, production, processing and end-applications for renewable raw materials. Considers and compares EU and US renewable resources and sustainability objectives. Devotes one chapter to green chemistry and sustainability, focussing on the green industrial processes. This is an essential book for upper level undergraduates and Masters students taking modules on Renewable Resources, Green Chemistry, Sustainable Development, Environmental Science,

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Agricultural Science and Environmental Technology. It will also benefit industry professionals and product developers who are looking at improved economic and environmental means of utilising renewable materials.

Chemical engineering applications have been a source of challenging optimization problems in terms of economics and technology. The goal of this book is to enable the reader to get instant information on fundamentals and advancements in chemical engineering. This book addresses ongoing evolutions of chemical engineering and provides overview to the state of the art advancements. Molecular perspective is increasingly important in the refinement of kinetic and thermodynamic modeling. As a result, much of the material was revised on industrial problems and their sophisticated solutions from known

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scientists around the world. These issues were divided in to two sections, fundamental advances and catalysis and reaction engineering. A distinct feature of this text continues to be the emphasis on molecular chemistry, reaction engineering and modeling to achieve rational and robust industrial design. Our perspective is that this background must be made available to undergraduate, graduate and professionals in an integrated manner.

In response to the global increase in the use of biofuels as substitute transportation fuels, advanced chemical, biochemical and thermochemical biofuels production routes are fast being developed. Research and development in this field is aimed at improving the quality and environmental impact of biofuels production, as well as the overall efficiency and output of biofuels production plants. The range

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of biofuels has also increased to supplement bioethanol and biodiesel production, with market developments leading to the increased production and utilisation of such biofuels as biosyngas, biohydrogen and biobutanol, among others. Handbook of biofuels production provides a comprehensive and systematic reference on the range of biomass conversion processes and technology. Part one reviews the key issues in the biofuels production chain, including feedstocks, sustainability assessment and policy development. Part two reviews chemical and biochemical conversion and in turn Part three reviews thermal and thermo-chemical conversion, with both sections detailing the wide range of processes and technologies applicable to the production of first, second and third generation biofuels. Finally, Part four reviews developments in the integration of biofuels production, including biorefineries and by-product valorisation, as well as the

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utilisation of biofuels in diesel engines. With its distinguished international team of contributors, Handbook of biofuels production is a standard reference for biofuels production engineers, industrial chemists and biochemists, plant scientists, academics and researchers in this area. A comprehensive and systematic reference on the range of biomass conversion processes and technologies Addresses the key issues in the biofuels production chain, including feedstocks, sustainability assessment and policy development Reviews chemical and bio-chemical conversion techniques as well as thermal and thermo-chemical conversion, detailing the range of processes and technologies applicable to biofuels production

This book serves as a rich source of information on the production, processing, characterization and utilization of palm oil and its

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components. It also includes several topics related to oil palm genomics, tissue culture and genetic engineering of oil palm. Physical, chemical and polymorphic properties of palm oil and its components as well as the measurement and maintenance of palm oil quality are included and may be of interest to researchers and food manufacturers. General uses of palm oil/kernel oil and their fractions in food, nutritional and oleochemical products are discussed as well as the potential use of palm oil as an alternative to trans fats. Some attention is also given to palm biomass, bioenergy, biofuels, waste management, and sustainability. Presents several chapters related to oil palm genetics, including oil palm genomics, tissue culture and genetic engineering. Includes contributions from more than 80 well-known scientists and researchers in the field. In addition to chapters on food uses of palm oil, the book contains nonfood applications such as use as a feedstock

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for wood-based products or for bioenergy. Covers key aspects important to the sustainable development of palm oil.

The three major macronutrients are proteins, carbohydrates, and lipids (oils and fats). This book is devoted to lipids, which are an important part of life for all of us. What are these materials in molecular terms? Where do they come from? What happens to them between the harvesting of crops and the appearance of the oils and fats in different products in the supermarket? How does nature produce these molecules and can we act on nature to modify them to increase their beneficial properties? How important are the minor products present in the fats that we consume? Since oils and fats vary, how can we analyse them? What are their physical, chemical and nutritional properties? How do the fats that we consume affect our health and well-

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being in both quantitative and qualitative terms? What are their major food and non-food uses? This book provides a broad source of reference on oils and fats chemistry for graduates entering the food and oleochemical industries, postgraduate researchers and nutritionists. It offers a point of entry to the detailed literature.

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