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Biopolymers and biodegradable plastics are finding new applications in various sectors, from packaging, to medical, automotive and many more. As synthetic plastics are increasingly replaced by their bioplastic equivalents, engineers are facing new challenges including processing, costs, environmental sustainability and - ultimately - developing successful products. Biopolymers: Processing and Products, the second book of a trilogy dedicated to biopolymers, gives a detailed insight into all aspects of processing, seamlessly linking the science of biopolymers to the latest trends in the development of new products. Processes covered in the book include blending,

compounding, treatment, and shaping, as well as the formation of biocomposites. Biopolymer coatings and adhesives are also investigated. This book unique in its coverage contains information retrieved mainly from patents, which form the bulk of the book. The coverage of processing will help engineers and designers to improve output and efficiency of every stage of the product development process, and will form an indispensable tool in selecting the right biopolymer and processing technique for any given application, covering medical, automotive, food packaging and more. It will assist also engineers, material scientists and researchers to improve existing biopolymer processes and deliver better products at lower cost. Multi-disciplinary approach and critical presentation of all available processing techniques and new products of biopolymers Contains information not to be found in any other book Self-contained chapters This review outlines the nature looking at its supply and demand, price, markets and applications, environmental issues and the future prospects of the industry. The report describes raw materials and synthesis, additives and compounding, and processing. Current issues have been highlighted including new technology and market forces. culture and trends in the building and construction industry. It describes the current building and construction market place and the applications and potential for the wide range of polymer materials available today. This review is accompanied by indexed summaries of papers from the Rapra Polymer Library database to allow the reader to search for information on specific topics. The replacement of polyols synthesized from petrochemical by polyols originating from natural products, notably from vegetable oils and animal fats, has been the subject of research projects for a number of decades. Very recently, however, the polymers industry has intensified its efforts to include the "green products", such as biobased polyols, in applications already available in the market. Examples of such applications include polyurethane foams, elastomers and epoxides. This book describes the extraction of the natural constituents of several fruits and plants as well as their chemical conversion to polyols. In addition to the chemistry involved in the process, particular emphasis is attributed to their applications. Radical polymerization is one of the most widely used means of producing vinyl polymers, supporting a myriad of commercial uses. Maintaining the quality of the critically acclaimed first

edition, the Handbook of Vinyl Polymers: Radical Polymerization, Process, and Technology, Second Edition provides a fully updated, single-volume source on t Agribusiness offers a unique introduction to the business of agriculture: what agribusiness is, why it matters, what the role of technology is, how trade fits into the picture, what its key risks are, who is lending and investing and why, and what returns they are getting. It is both practical in orientation - focusing on the role of managers in the industry as well as that of lenders and investors - and international in scope - drawing on case studies and interviews with key figures all over the world. The text ranges across various agricultural commodities to stress that there is no 'one size fits all' solution and successful management, lending or investment in agribusiness requires understanding specifics. Readers are introduced to the economics of the supply and demand of food, the role of agricultural trade, agricultural marketing and farm management along with key business aspects including: Main drivers of agribusiness value; Principal risks of agribusinesses; Agribusiness as an investment class; and Agribusiness lending: why, who and how. This engaging textbook offers a complete guide to the international business of agriculture which is ideal for all students, scholars and practitioners. A selection of eResources is also available to supplement this text, and instructors will find PowerPoint slides, discussion questions, case studies and further teaching materials available to them. Covering a broad range of polymer science topics, Handbook of Polymer Synthesis, Characterization, and Processing provides polymer industry professionals and researchers in polymer science and technology with a single, comprehensive handbook summarizing all aspects involved in the polymer production chain. The handbook focuses on industrially important polymers, analytical techniques, and formulation methods, with chapters covering step-growth, radical, and co-polymerization, crosslinking and grafting, reaction engineering, advanced technology applications, including conjugated, dendritic, and nanomaterial polymers and emulsions, and characterization methods, including spectroscopy, light scattering, and microscopy. Extract: Twelve types of aluminum, plastic, and wooden permanent pallets were evaluated for possible use in handling systems for fresh and frozen food items. The pallets were subjected to the following physical tests: (1) aging--placed in commercial use for one full year,

(2) dropping--performed random corner drops onto a concrete surface, (3) racking--2,000-pound load for 24 hours on a rack, and (4) stacking--2,200-pound load for 72 hours on a concrete slab. Costs and opinions of the commercial cooperators were included in the final evaluations of these pallets. The standard hardwood pallet, presently found in commercial use, the molded plastic solid deck, and the molded plastic heavy grid satisfactorily passed the four physical tests. The costs of the two latter pallets were about 4.7 and 3.5 times more expensive than the standard hardwood pallet. No pallet that could be sanitized and that was not prohibitively high in cost was strong enough to replace the standard hardwood pallet. Thermoplastics and Thermoplastic Composites, Third Edition bridges the technology and business aspects of thermoplastics, providing a guide designed to help engineers working in real-world industrial settings. The author explores the criteria for material selection, provides a detailed guide to each family of thermoplastics, and explains the various processing options for each material type. More than 30 families of thermoplastics are described with information on their advantages and drawbacks, special grades, prices, transformation processes, applications, thermal behavior, technological properties (tenacity, friction, dimensional stability), durability (ageing, creep, fatigue), chemical and fire behavior, electrical properties, and joining possibilities. In this third edition, standards and costs have been updated for all materials, and more information on topics such as bioplastics, 3D printing and recycling have been added. In addition, an entirely new chapter on the concept of 'Industry 4.0' has been added, with guidance and suggestions on the incorporation of virtualization, connectivity, and automation into the plastics engineering process to reduce materials and processing failure. Includes detailed case studies that illustrate best practices across a wide range of applications and industry sectors Presents a new chapter on the 'Industry 4.0' concept Suggests software solutions to assist with design, decision-making and management, along with other forms of automation A Practical Guide to Plastics Sustainability: Concept, Solutions, and Implementation is a groundbreaking reference work offering a broad, detailed and highly practical vision of the complex concept of sustainability in plastics. The book's aim is to present a range of potential pathways towards more sustainable plastics parts and products, enabling the

reader to further integrate the idea of sustainability into their design process. It begins by introducing the context and concept of sustainability, discussing perceptions, drivers of change, key factors, and environmental issues, before presenting a detailed outline of the current situation with types of plastics, processing, and opportunities for improved sustainability. Subsequent chapters focus on the different possibilities for improved sustainability, offering a step-by-step technical approach to areas including design, properties, renewable plastics, and recycling and re-use. Each of these pillars are supported by data, examples, analysis and best practice guidance. Finally, the latest developments and future possibilities are considered. Approaches the idea of sustainability from numerous angles, offering practical solutions to improve sustainability in the development of plastic components and products Explains how sustainability can be applied across plastics design, materials selection, processing, and end of life, all set alongside socioeconomic factors Considers key areas of innovation, such as eco-design, novel opportunities for recycling or re-use, bio-based polymers and new technologies Plastics End Use Applications is a SpringerBrief designed to keep professionals in the plastics industry abreast of key technical developments, business strategies and marketing initiatives in plastics and competitive materials that impact sales and usage. It is concisely focused on the five major competitive material areas-plastic, metal, paper and wood, rubber, and glass and ceramic-and how they interact in the twenty major plastic end-use market segments. For the global plastics professional, this book offers a way to enhance plastics technical and marketing insights. Plastics End Use Applications is of most value to manufacturing engineers, research and development professionals and general researchers interested in plastics and materials science. One of the key problems of failure-free operation of machinery is prevention of corrosion. The global scale of modern production makes this problem even more critical. At the beginning of the 21st century industrial contamination and the corrosion-active nature of the environment reached a level such that corrosive damage of materials became commensurate with their production volume and expenditure on anticorrosion protection of machines became comparable with investments in basic production. Anticorrosion techniques changed from being an auxiliary service to industrial

enterprises into a developing, scientifically intensive and generously financed branch of production. Polymers occupy a very specific place amongst anticorrosion techniques. Polymers combine good chemical resistance with impermeability to different media and unusual deformation characteristics. The main principle of their application as anticorrosion means is the creation of a tight barrier that insulates metal machine parts or constructions from corrosion agents. The advantages of polymers allow the creation of such a barrier at minimal cost, providing protection of the working machines from corrosion, combining their manufacture with preservation and decreasing the cost of anticorrosion. This is one of the main reasons why world production of polymer materials increased by almost 50% in the past decade. This Standard specifies the basic requirements for product classification, technical requirements, test methods, inspection rules and signs, transportation, and storage of plastic flat pallets. This Standard is applicable to single-sided and double-sided plastic flat pallets (hereinafter referred to as pallets) that use high-density polyethylene, polypropylene, etc. as the main raw materials, and can be used in 2-way or 4-way with a cross load P of 1000 kg. Analyzing the future strategies for polymer waste management, this volume addresses the chemical/technical problems as well as the societal aspects of this area. Consumer demand for a year-round supply of seasonal produce and ready-made meals remains the driving force behind innovation in frozen food technology. Now in its second edition, Handbook of Frozen Food Processing and Packaging explores the art and science of frozen foods and assembles essential data and references relied upon by scientists in univ

Future robots are expected to work closely and interact safely with real-world objects and humans alike. Sense of touch is important in this context, as it helps estimate properties such as shape, texture, hardness, material type and many more; provides action related information, such as slip detection; and helps carrying out actions such as rolling an object between fingers without dropping it. This book presents an in-depth description of the solutions available for gathering tactile data, obtaining aforementioned tactile information from the data and effectively using the same in various robotic tasks. The efforts during last four decades or so have yielded a wide spectrum of tactile sensing technologies and engineered solutions for both intrinsic and extrinsic touch

sensors. Nowadays, new materials and structures are being explored for obtaining robotic skin with physical features like bendable, conformable, and stretchable. Such features are important for covering various body parts of robots or 3D surfaces. Nonetheless, there exist many more hardware, software and application related issues that must be considered to make tactile sensing an effective component of future robotic platforms. This book presents an in-depth analysis of various system related issues and presents the trade-offs one may face while developing an effective tactile sensing system. For this purpose, human touch sensing has also been explored. The design hints coming out of the investigations into human sense of touch can be useful in improving the effectiveness of tactile sensory modality in robotics and other machines. Better integration of tactile sensors on a robot's body is prerequisite for the effective utilization of tactile data. The concept of semiconductor devices based sensors is an interesting one, as it allows compact and fast tactile sensing systems with capabilities such as human-like spatio-temporal resolution. This book presents a comprehensive description of semiconductor devices based tactile sensing. In particular, novel Piezo Oxide Semiconductor Field Effect Transistor (POSFET) based approach for high resolution tactile sensing has been discussed in detail. Finally, the extension of semiconductor devices based sensors concept to large and flexible areas has been discussed for obtaining robotic or electronic skin. With its multidisciplinary scope, this book is suitable for graduate students and researchers coming from diverse areas such as robotics (bio-robots, humanoids, rehabilitation etc.), applied materials, human touch sensing, electronics, microsystems, and instrumentation. To better explain the concepts the text is supported by large number of figures. Polymer nanotechnology offers exciting benefits to the food industry, including better materials for food packaging and safer foods on supermarket shelves with lower incidences of contamination. Ecosustainable Polymer Nanomaterials for Food Packaging: Innovative Solutions, Characterization Needs, Safety and Environmental Issues examines the complete life cycle of packaging based on polymer nanomaterials. Focusing on current developments in nanomaterial packaging applications most likely to be accepted by consumers and attract regulatory attention in the immediate future, the book begins with a general introduction to current issues and

future trends. The remaining chapters explore: The concept of "ethical design" putting into practice key ideas such as the precautionary principle and presenting a model for accountability, responsibility, and ethical consideration The evolution of the rheology, structure, and morphology of nanomaterials with regard to processing conditions and constituents The application of plasma technologies for the production of barrier coatings on polymeric materials by nonequilibrium gas discharges Nanomaterials for food packaging developed from oil polymers (polyolefins) and from renewable resource polymers The use of cellulose nanowhiskers for food biopackaging and edible nano-laminate coatings The interactions of nanomaterials with food Examples of degradation under natural weathering, exposure, and recycling The book concludes with a discussion on the use of polymer nanocomposite materials for food packaging applications. From raw material selection to properties characterization to marketing and disposal, the expert contributors consider the balance between cost and performance, risk and benefit, and health and environmental issues. They also identify barriers to progress that prevent a complete successful development of the new technology and recommend strategies for further advancement. " This book highlights different domains of functional polymers from membranes and coatings to composite materials. It includes their synthesis routes and techniques, characterization, properties, and applications. The book also provides the basics and advances about different functional polymers and composites with an up-to-date progress in the field of research and their application on a domestic and industrial scale. The main topics to be covered include polymeric membranes, paints and coatings, smart polymers, self-healing elastomers, biodegradable polymers, food packaging, and functional composite materials. The book begins with a short narration of current packaging practices followed by present day horticulture industry. After pointing out the disadvantages of some of the current practices, the author categorically states that we do not need to religiously follow traditional packaging practices if we are serious about curtailing the supply chain loss of fruits and vegetables. The author goes on listing out various types of packaging materials that are available today before addressing the major theme of the book, i.e. 'Modern Innovations in Packaging Materials and Packaging Technologies'. MAP films, MIP films and active and

intelligent packing materials are described in detail under this topic. Manufacturing process of polymer-based packing materials is also described for the better understanding of the reader. The author then elaborates on how to select a suitable packing material for your horticultural produce. Major two parameters that are to be considered are packing material properties and product-specific properties. The author makes a reference of various packaging designs and packaging standards also for those who are interested in these topics. According to the author advanced packaging technologies such as modified atmosphere packaging, modified interactive packaging, active and intelligent packaging, TBG technology and packaging technology for microwaveable containers are going to make a big difference in the way how highly perishable fruits and vegetables are packed and consumed. Finally, the author gives a short narration of various types of packaging machines that are available today and also lists out major global suppliers of packaging solutions for horticulture industry. Vols. for 1970-71 includes manufacturers' catalogs. The leading book on packaging and the environment-now expanded and updated This is a detailed examination and objective analysis of all aspects of environmental problems related to packaging: resource depletion, pollution, solid waste management, recycling, degradability, package design considerations, and legislation. The author is a leading authority on the subject. The presentation is well documented and non-partisan. This new edition is expanded and completely updated. This report starts with a simple overview of materials, processes and application for rigid plastics packaging and progresses to the latest developments. Processing methods are described briefly in the review with an overview of each type accompanied by a discussion of forthcoming developments. The properties of the different polymers and polymer grades related to packaging applications are also discussed. The review is accompanied by over 400 summaries of papers from the Rapra Polymer Library on developments in polymers, processes and applications for rigid packaging. The aim of this book is to present in a single volume an up-to-date account of the chemistry and chemical engineering which underlie the major areas of the chemical process industry. This most recent edition includes several new chapters which comprise important threads in the industry's total fabric. These new chapters cover waste minimization, safety considerations in

chemical plant design and operation, emergency response planning, and statistical applications in quality control and experimental planning. Together with the chapters on chemical industry economics and wastewater treatment~ they provide a unifying base on which the reader can most effectively apply the information provided in the chapters which describe the various areas of the chemical process industries. The ninth edition of this established reference work contains the contributions of some fifty experts from industry, government, and academe. I have been humbled by the breadth and depth of their knowledge and expertise and by the willingness and enthusiasm with which they shared their knowledge and insights. They have, without exception, been unstinting in their efforts to make their respective chapters as complete and informative as possible within the space available. Errors of omission, duplication, and shortcomings in organization are mine. Grateful acknowledgment is made to the editors of technical journals and publishing houses for permission to reproduce illustrations and other materials and to the many industrial concerns which contributed drawings and photographs. Comments and criticisms by readers will be welcome. This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file. Cellulose Fibre Reinforced Composites: Interface Engineering, Processing and Performance provides an up-to-date review of current research in cellulose fiber reinforced polymer composites. Key emphasis is placed on interface engineering, modern technologies needed for processing and materials performance in industrial applications. Novel techniques for interfacial adhesion, characterization and assessment of cellulose fiber reinforced composites are also discussed, along with current trends and future directions. With contributions from leading researchers in industry, academic, government and private research institutions from across the globe, the book will be an essential reference resource for all those working in the field of cellulose fibers and their composites. Reviews advances in recent research towards enhancing the mechanical properties of cellulose fiber composites Discusses interface engineering and modern technologies needed for processing cellulose fiber composites Includes case studies of problems with interfaces and practical industrial applications This eBook is a collection of articles from a Frontiers Research Topic.

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