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Bone disease is becoming increasingly prevalent in modern society due to population aging among other factors, and the use of dental and orthopedic implants to treat bone disease has been on the rise. The history of implants can be traced back all the way to A.D. 1 when wrought iron dental implants were used in Ancient Rome.

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The polymer contents help overcome the poor fracture toughness of hydroxyapatite (HAp)-facilitated osteogenic differentiation of pulp cells. However, the composition of this novel polymer remained unclear. This study evaluated a novel polymer composite, P(CL-co-DLLA) and HAp, as a direct pulp capping carrier for biological molecules. The biocompatibility of the novel polymer composite was evaluated by determining the cytotoxicity and proliferation of human dental stem cells in vitro.

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In this entry, surface-modified polymers such as 2-methacryloyloxyethyl phosphorylcholine (MPC) polymers by radical polymerization with other methacrylates, such as n-butyl methacrylate (BMA), ...

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and orthopedic applications abstract polymers have been used as biomaterials in orthopaedic surgery for decades despite reports of complications with some polymeric materials most are biocompatible and have been used successfully in total joint replacements for soft tissue reconstruction

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immensely from developments in polymer science and technology polymers for dental and orthopedic applications different synthetic polymeric materials such as polyvinylidene fluoride polyethylene polypropylene polydimethylsiloxane parylene polyamide polytetrafluoroethylene poly methyl methacrylate polyimide and

Recent advances not only in the creation of new polymers but also in their processing and production have ushered in huge strides in a variety of biomedical and clinical areas.

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Orthopedics and dentistry are two such areas that benefit immensely from developments in polymer science and technology. *Polymers for Dental and Orthopedic Applications* examines the most current topics in this expanding field with an emphasis on technological evolution and clinical impacts. Surveying major progress in polymer science and technology for dental, maxillofacial, and orthopedic applications, this book provides a unique illustration of the conceptual development of novel biomaterials and processes designed to meet targeted clinical needs. Two preeminent scientists lead a close-knit team of international experts with extensive experience in product development, bioengineering, education, and clinical applications. Ranging from polymeric materials for dental and maxillofacial application to joint repair and replacement, polymeric composites, and tissue engineering, the book also examines topics that are common to both dental and orthopedic fields, such as osseointegration and infection management. Explore the current status and future possibilities of polymeric biomaterials in *Polymers for Dental and Orthopedic Applications*. A unique blend of technical information and practical insight, this reference fosters the continued growth of a critically important field.

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The medical device and drug industries standards in analytical methodology and are consistently among the strongest technological performers. Materials are a key ingredient in their dynamic growth. The users of Biomaterials Engineering and Devices: Human Applications will report of these materials is in a constant state of broad activity, with the challenge of replacing old materials that cannot withstand chemistry and biochemistry) to more the tests of time, and the new materials' applied disciplines (e. g. , mechanical/ needs coming to the forefront in modern chemical engineering, orthopedics, and applications. This new reference text, pharmaceuticals). To meet varied needs, each Biomaterials Engineering and Devices: chapter provides clear and fully detailed Human Applications, focuses on materials discussions. This in-depth, but practical, used in or on the human body-materials coverage should also assist recent industry that define the world of "biomaterials. " goes to the biomaterials circle. The editors Biomaterials Engineering and Devices: trust that this reference textbook conveys Human Applications focuses on materials the intensity of this fast moving field in an enthusiastic development and characterization. Chapters deal with issues in the selection of Donald L. Wise, PHD proper

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Reactive Polymers: Fundamentals and Applications: A Concise Guide to Industrial Polymers, Third Edition introduces engineers and scientists to a range of reactive polymers and then details their applications and performance benefits. Basic principles and industrial processes are described for each class of reactive resin (thermoset), as well as additives, the curing process, applications and uses. The initial chapters are devoted to individual resin types (e.g., epoxides, cyanacrylates), followed by more general chapters on topics such as reactive extrusion and dental applications. Injection molding of reactive polymers, radiation curing, thermosetting elastomers, and reactive extrusion equipment are covered as well. The use of reactive polymers enables manufacturers to make chemical changes at a late stage in the production process, which, in turn, cause changes in performance and properties. Material selection and control of the reaction are essential to achieve optimal performance. Material new to this edition includes the most recent developments, applications and commercial products for each chemical class of thermosets, as well as

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sections on fabrication methods, reactive biopolymers, recycling of reactive polymers and case studies. Covers the basics and most recent developments, including reactive biopolymers, recycling of reactive polymers, nanocomposites and fluorosilicones Offers an indispensable guide for engineers and advanced students alike Provides extensive literature and patent review Reflects a thorough review of all literature published in this area since 2014 Features revised and updated chapters to reflect the latest research in reactive polymers

Resin materials are broadly used in dentistry for almost all indications and they will gain even more importance in future. Especially the increasing performance and efficiency of the CAD/CAM technology and 3D-printing open possibilities to use resins not used up to now in dentistry. Besides of dentists, dental students or dental technicians there are many other specialists such as researchers, material scientists, industrial developers or experts of adjoining professional disciplines who are technically engaged in dental resins. The idea of this ebook series is to present a three-level textbook consisting of Basic Level, Advanced Level and Expert Level versions dealing with material science and technology of dental resins. Every level significantly expands the information and knowledge given by the respective preceding version. This book presents the Advanced

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Level version. The Advanced Level broadens the information of the Basic Level significantly and mainly addresses teachers of dental universities/schools, postgraduate students, PhD candidates, researchers, material scientists, industrial developers or experts of adjoining professional disciplines. It gives a very deep insight into chemistry, physics, testing methods and toxicology of dental resins and their technical application.

PEEK biomaterials are currently used in thousands of spinal fusion patients around the world every year. Durability, biocompatibility and excellent resistance to aggressive sterilization procedures make PEEK a polymer of choice replacing metal in orthopedic implants, from spinal implants and hip replacements to finger joints and dental implants. This Handbook brings together experts in many different facets related to PEEK clinical performance as well as in the areas of materials science, tribology, and biology to provide a complete reference for specialists in the field of plastics, biomaterials, medical device design and surgical applications. Steven Kurtz, author of the well respected UHMWPE Biomaterials Handbook and Director of the Implant Research Center at Drexel University, has developed a one-stop reference covering the processing and blending of PEEK, its properties and biotribology, and the expanding range of

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medical implants using PEEK: spinal implants, hip and knee replacement, etc. Full coverage of the properties and applications of PEEK, the leading polymer for spinal implants. PEEK is being used in a wider range of new applications in biomedical engineering, such as hip and knee replacements, and finger joints. These new application areas are explored in detail. Essential reference for plastics engineers, biomedical engineers and orthopedic professionals involved in the use of the PEEK polymer, and medical implants made from PEEK.

In a carefully crafted, multidisciplinary, skillfully focused format, Polymers for Vascular and Urogenital Applications covers attributes of polymers used for vascular, urological, and gynecological materials. It provides a brief analysis of how the use of polymers in vascular and urogenital applications has evolved in the past five decades and outlines their common and specific functional requirements. The book provides a brief description of the evolving role of a particular family of materials and presents topics in highly integrated, well-balanced, authoritatively prepared segments on materials processing and in vitro and in vivo evaluation, complete with case studies. Features Includes contributions from authors representing a diverse technical group of clinicians with strong science or engineering backgrounds and research interests Supplies a

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comprehensive link between polymeric biomaterials and their application Provides a brief description of the evolving role of a particular family of materials Discusses recent developments in applications and the rationale for present and future clinical significance This book not only integrates clinical needs with current and future research responses but also provides a comprehensive overview to foster future innovation. It illustrates how two important and dissimilar areas in medicine can be interrelated by shared biomaterials and explores the clinical paradigm that establishes the driving force for innovation.

The Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials presents new and selected content from the 11-volume Biomedical Polymers and Polymeric Biomaterials Encyclopedia. The carefully culled content includes groundbreaking work from the earlier published work as well as exclusive online material added since its publication in print. A diverse and global team of renowned scientists provide cutting edge information concerning polymers and polymeric biomaterials. Acknowledging the evolving nature of the field, the encyclopedia also features newly added content in areas such as tissue engineering, tissue repair and reconstruction, and biomimetic materials.

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PEEK biomaterials are currently used in hundreds of thousands of spinal fusion patients around the world every year. Durability, biocompatibility, and excellent resistance to aggressive sterilization procedures make PEEK a polymer of choice, replacing metal in orthopedic implants, from spinal implants and knee replacements to finger joints and dental implants. The new edition of this authoritative work sees the book expand from 17 chapters to 26 chapters to match the expansion in applications in PEEK—from spinal cages to spinal rods and disc replacements; hip and knee joint replacement; dental; trauma; and sports medicine. New PEEK formulations have been developed incorporating hydroxyapatite, additives to combat infection, and surface grafted polymers to improve lubrication. The book also covers additive manufacturing, which has made significant inroads with PEEK in the past 5 years as well by introducing the prospect of patient-specific implants. Like the 1st edition, the updated Handbook brings together experts in many different facets related to PEEK clinical performance as well as in the areas of materials science,

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tribology, and biology to provide a complete reference for specialists in the field of plastics, biomaterials, medical device design, and surgical applications. Useful for materials scientists and biomedical engineers, both in industry and academia, the book is a one-stop shop for information on PEEK as a biomaterial—including in-depth coverage of materials properties—while also providing cutting-edge information on applications and combinations of the material. Presents a complete reference work covering PEEK, the leading polymer for spinal implants and a range of other biomedical applications Covers a range of new formulations and applications, including in-depth coverage of the additive manufacturing of PEEK Provides a vital source of supporting information for materials selection decisions and regulatory submissions

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