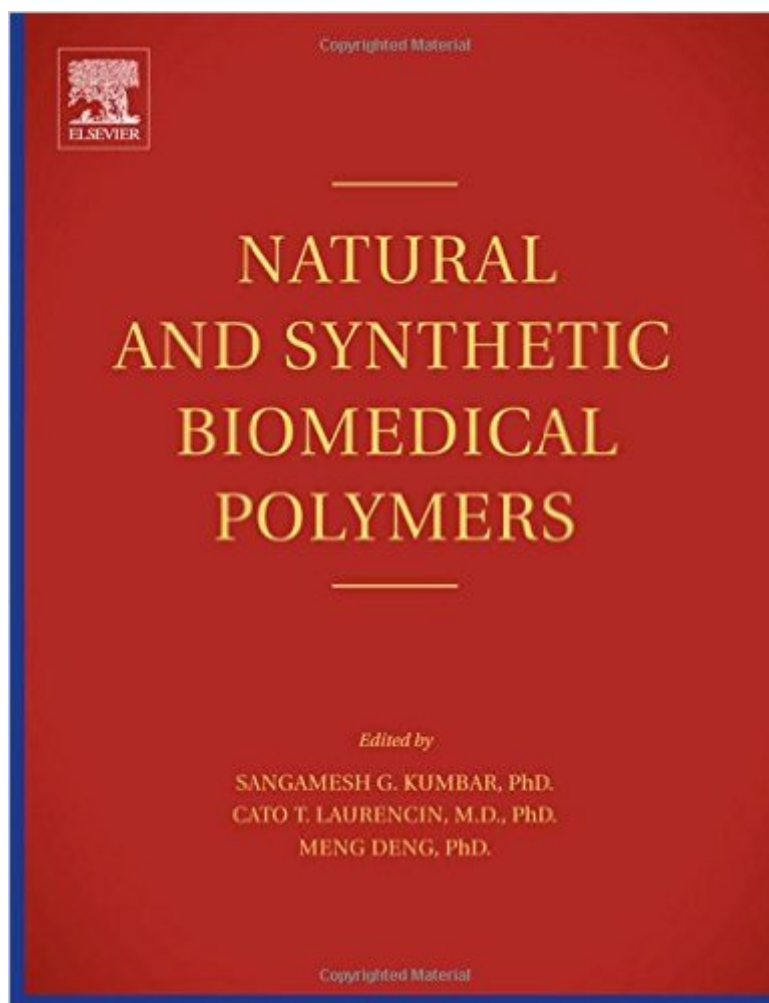


The book was found

Natural And Synthetic Biomedical Polymers



Synopsis

Polymers are important and attractive biomaterials for researchers and clinical applications due to the ease of tailoring their chemical, physical and biological properties for target devices. Due to this versatility they are rapidly replacing other classes of biomaterials such as ceramics or metals. As a result, the demand for biomedical polymers has grown exponentially and supports a diverse and highly monetized research community. Currently worth \$1.2bn in 2009 (up from \$650m in 2000), biomedical polymers are expected to achieve a CAGR of 9.8% until 2015, supporting a current research community of approximately 28,000+. Summarizing the main advances in biopolymer development of the last decades, this work systematically covers both the physical science and biomedical engineering of the multidisciplinary field. Coverage extends across synthesis, characterization, design consideration and biomedical applications. The work supports scientists researching the formulation of novel polymers with desirable physical, chemical, biological, biomechanical and degradation properties for specific targeted biomedical applications. Combines chemistry, biology and engineering for expert and appropriate integration of design and engineering of polymeric biomaterials. Physical, chemical, biological, biomechanical and degradation properties alongside currently deployed clinical applications of specific biomaterials aids use as single source reference on field. 15+ case studies provides in-depth analysis of currently used polymeric biomaterials, aiding design considerations for the future

Book Information

Hardcover: 420 pages

Publisher: Elsevier Science; 1 edition (March 6, 2014)

Language: English

ISBN-10: 0123969832

ISBN-13: 978-0123969835

Product Dimensions: 8.7 x 0.9 x 11.2 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,958,056 in Books (See Top 100 in Books) #172 in Books > Engineering & Transportation > Engineering > Chemical > Plastics #503 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles #1211 in Books > Textbooks > Engineering > Chemical Engineering

[Download to continue reading...](#)

Natural and Synthetic Biomedical Polymers Biomedical Ethics for Engineers: Ethics and Decision Making in Biomedical and Biosystem Engineering (Biomedical Engineering Series) Introduction to Synthetic Polymers Medical Aspects of Proteases and Proteases Inhibitors (Biomedical and Health Research, Vol. 15) (Biomedical and Health Research, V. 15) Dopamine Receptor Sub-Types: From Basic Sciences to Clinical Applications (Biomedical and Health Research, Vol. 19) (Biomedical and Health Research, V. 19) Quantitative Biomedical Optics: Theory, Methods, and Applications (Cambridge Texts in Biomedical Engineering) Biomedical Engineering and Design Handbook, Volume 1: Volume I: Biomedical Engineering Fundamentals Physical Properties of Polymers Handbook (AIP Series in Polymers & Complex Materials) Natural Organic Hair and Skin Care: Including A to Z Guide to Natural and Synthetic Chemicals in Cosmetics Natural Remedies for Dogs : 101 Safe & Natural Essential Oils' Remedies for Your DOG: (Natural Remedies For Dogs, Essential Oils Remedies For Dogs, Natural Dog Care, Recipes For Dogs, Home Remedies) Synthetic Surfactant Vesicles: Niosomes and Other Non-Phospholipid Vesicular Systems (Drug Targeting and Delivery) The Idea of Natural Rights: Studies on Natural Rights, Natural Law, and Church Law 1150 1625 (Emory University Studies in Law and Religion) Insect Control: Biological and Synthetic Agents Synthetic Lubricants and High-Performance Functional Fluids (Chemical Industries) Synthetic Aperture Radar: Systems and Signal Processing Digital Processing of Synthetic Aperture Radar Data: Algorithms and Implementation [With CDROM] (Artech House Remote Sensing Library) Imidazole and Benzimidazole Synthesis (Best Synthetic Methods) Practical Synthetic Organic Chemistry Reactions, Principles, and Techniques [Wiley,2011] [Paperback] Evolution of Synthetic Pathways: Parallax and Calibration Introduction to Soft Matter: Synthetic and Biological Self-Assembling Materials

[Dmca](#)