Handbook of Polymers for Pharmaceutical Technologies

Volume 4

Bioactive and Compatible
Synthetic / Hybrid Polymers



EDITED BY

Vijay Kumar Thakur Manju Kumari Thakur



Vijay Kumar Thakur, Manju Kumari Thakur

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found wide clinical applications while also reviewing the state of the art in the development towards future medical applications starting with a brief introduction to the history of biomaterials used in hip arthroplasty The book then reviews general types of biomaterials polymers ceramics and metals as well as different material structures such as porous materials and coatings and their applications before exploring various current research trends such as biodegradable and porous metals shape memory alloys bioactive biomaterials and coatings and nanometals used in the diagnosis and therapy of cancer In turn the book discusses a range of methods and approaches used in connection with biomaterial properties and characterization chemical properties biocompatibility in vivo behaviour characterisation as well as genotoxicity and mutagenicity and reviews various diagnostic techniques histopathological analysis imagining techniques and methods for physicochemical and spectroscopic characterization Properties of stent deployment procedures in cardiovascular surgeries from aspects of prediction development and deployment of stent geometries are presented on the basis of novel modelling approaches The last part of the book presents the clinical applications of biomaterials together with case studies in dentistry knee and hip prosthesis Reflecting the efforts of a multidisciplinary team of authors gathering chemical engineers medical doctors physicists and engineers it presents a rich blend of perspectives on the application of biomaterials in clinical practice The book will provide clinicians with an essential review of currently available solutions in specific medical areas also incorporating non medical solutions and standpoints thus offering them a broader selection of materials and implantable solutions This work is the result of joint efforts of various academic and research institutions participating in WIMB Tempus project 543898 TEMPUS 1 2013 1 ES TEMPUS JPHES Development of Sustainable Interrelations between Education Research and Innovation at WBC Universities in Nanotechnologies and Advanced Materials where Innovation Means Business co funded by the Tempus Programme of the European Union Handbook of Composites from Renewable Materials, Nanocomposites Vijay Kumar Thakur, Manju Kumari Thakur, Michael R. Kessler, 2017-03-29 This unique multidisciplinary 8 volume set focuses on the emerging issues concerning synthesis characterization design manufacturing and various other aspects of composite materials from renewable materials and provides a shared platform for both researcher and industry The Handbook of Composites from Renewable Materials comprises a set of 8 individual volumes that brings an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis structure characterization processing applications and performance of these advanced materials The Handbook comprises 169 chapters from world renowned experts covering a multitude of natural polymers reinforcement fillers and biodegradable materials Volume 8 is solely focused on the Nanocomposites Advanced Applications Some of the important topics include but not limited to Virgin and recycled polymers applied to advanced nanocomposites biodegradable polymer carbon nanotube composites for water and wastewater treatment eco friendly nanocomposites of chitosan with natural extracts antimicrobial agents and nanometals controllable generation of renewable nanofibrils from green materials and their application in

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