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Chitosan-Based Systems for Biopharmaceuticals Polyoxymethylene Handbook Advances in Mechanics of Materials for Environmental and Civil Engineering Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination Commerce Business Daily Bridge Maintenance, Safety, Management, Digitalization and Sustainability Thomas Register of American Manufacturers Annual Book of ASTM Standards Bruno Sarmento Sigrid Lüftl Francesco dell'Isola J. Russell Boulding Jens Sandager Jensen American Society for Testing and Materials

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chitosan is a linear polysaccharide commercially produced by the deacetylation of chitin it is non toxic biodegradable biocompatible and acts as a bioadhesive with otherwise unstable biomolecules making it a valuable component in the formulation of biopharmaceutical drugs chitosan based systems for biopharmaceuticals provides an extensive overview of the application of chitosan and its derivatives in the development and optimisation of biopharmaceuticals the book is divided in four different parts part i discusses general aspects of chitosan and its derivatives with particular emphasis on issues related to the development of biopharmaceutical chitosan based systems part ii deals with the use of chitosan and derivatives in the formulation and delivery of biopharmaceuticals and focuses on the synergistic effects between chitosan and this particular subset of pharmaceuticals part iii discusses specific applications of chitosan and its derivatives for biopharmaceutical use finally part iv presents diverse viewpoints on different issues such as regulatory manufacturing and toxicological requirements of chitosan and its derivatives related to the development of biopharmaceutical products as well as their patent status and clinical application and potential topics covered include chemical and technological advances in chitins and chitosans useful for the formulation of biopharmaceuticals physical properties of chitosan and derivatives in sol and gel states absorption promotion properties of chitosan and derivatives biocompatibility and biodegradation of chitosan and derivatives biological and pharmacological activity of chitosan and derivatives biological chemical and physical compatibility of chitosan and biopharmaceuticals approaches for functional modification or crosslinking of chitosan use of chitosan and derivatives in conventional biopharmaceutical dosage forms manufacture techniques of chitosan based microparticles and nanoparticles for biopharmaceuticals chitosan and derivatives for biopharmaceutical use mucoadhesive properties chitosan based systems for mucosal delivery of biopharmaceuticals chitosan based delivery systems for mucosal vaccination chitosan based nanoparticulates for oral delivery of biopharmaceuticals chitosan based systems for ocular delivery of biopharmaceuticals chemical modification of chitosan for delivery of dna and sirna target specific chitosan based nanoparticle systems for nucleic acid delivery functional pegylated chitosan systems for biopharmaceuticals stimuli sensitive chitosan based systems for biopharmaceuticals chitosan copolymers for biopharmaceuticals application of chitosan for anti cancer biopharmaceutical delivery chitosan based biopharmaceuticals scaffolds in tissue engineering and regenerative medicine wound healing properties of chitosan and its use in wound dressing biopharmaceuticals toxicological properties of chitosan and derivatives for biopharmaceutical applications regulatory status of chitosan and derivatives

patentability and intellectual property issues quality control and good manufacturing practice preclinical and clinical use of chitosan and derivatives for biopharmaceuticals chitosan based systems for biopharmaceuticals is an important compendium of fundamental concepts practical tools and applications of chitosan based biopharmaceuticals for researchers in academia and industry working in drug formulation and delivery biopharmaceuticals medicinal chemistry pharmacy bioengineering and new materials development

an excellent unique and up to date reference book on polyoxymethylene its compounds and nanocomposites specifically dealing with synthesis characterization processing morphology and applications polyoxymethylene handbook structure properties applications and their nanocomposites summarizes many of the state of the art technological and research accomplishments in the area of polyoxymethylene pom it discusses in length the polymerization and manufacture of polyoxymethylene and various types of additives as well as the structure and crystallization behavior of pom and its thermal physical mechanical flame retardant chemical electrical and optical properties the environmental impact of pom is also addressed the 15 chapters in the handbook are written by prominent researchers from industry academia and government private research laboratories across the globe because so few books have ever been published on polyoxymethylene the handbook is a very valuable reference tool that truly serves as a one stop resource for readers and users seeking solutions to both fundamental and applied problems

this book deals with both mathematical modeling and experimental studies related to systems relevant for various civil engineering fields the book explores the intriguing effects of phenomena occurring at lower length scales on the behavior at higher scales as the influence of polypropylene macro fiber thickness in fiber reinforced concrete mechanical strengths generally speaking the book addresses several key topics including artificial intelligence applied to the control and monitoring of construction site personnel finite element models for endplate beam to column connections under various load conditions random functionally graded micropolar beams and many others the book explores the design and study of microstructures aimed at increasing the toughness and durability of novel materials in building and construction based also on the re utilization of residues and wastes of metallurgical industry produces in conclusion the book highlights innovative approaches to various fields of civil engineering including microstructures for enhanced mechanical properties offering insights into design strategies

a synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface practical handbook of soil vadose zone and ground water contamination assessment prev

bridge maintenance safety management digitalization and sustainability collects the lectures and technical papers presented at the 12th international conference on bridge maintenance safety and management iabmas 2024 copenhagen denmark 24 28 june 2024 this open access book contains 480 contributions including the t y lin lecture 9 keynote lectures and 470 technical papers from 44 countries the contributions are presented bring together academic and technological developments in bridge maintenance safety management digitalization and sustainability to solve new and old problems with innovative solutions major topics include advanced bridge design construction and maintenance approaches safety reliability and risk evaluation life cycle management life cycle resilience sustainability standardization analytical models bridge management systems service life prediction structural health monitoring non destructive testing and field testing robustness and redundancy durability enhancement repair and rehabilitation fatigue and corrosion extreme loads needs of bridge owners whole life costing and investment for the future financial planning and application of information and computer technology extensive data analysis and artificial intelligence for bridges among others bridge maintenance safety management

digitalization and sustainability provides an up to date overview of the field of bridge engineering and significant contributions to making more rational decisions on bridge safety maintenance management life cycle resilience sustainability and bridge innovations to enhance society s welfare the editors hope that this book will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including engineers researchers academics and students from all areas of bridge engineering

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