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Nota di contenuto	Introduction: Chitosan - The Versatile Biomaterial -- Chitosan Biomaterials: Applications and Prospects in the Pharmaceutical Sector -- Revolutionizing Pharmaceutics with Antimicrobial Chitosan Innovations -- Chitosan Beads - Drug Carriers: A promising approach -- Mucoadhesive Chitosan in Drug Delivery -- Chitosan films/membranes in drug delivery -- Chitosan Scaffolds in Drug delivery -- Applications of Chitosan Hydrogel in Pharmaceutical Delivery -- Chitosan and Its Derivatives In delivery of peptides and proteins -- Chitosan Nanoparticles: Targeted Drug Delivery (Oncology) -- Chitosan-Based Formulations for Enhanced Topical, Transdermal and Ocular Drug Delivery -- Chitosan in Oral Drug Delivery -- Chitosan as Nutraceuticals: Transforming Pharmaceutical Research -- Chitosan

and its Derivatives in Hemostasis & Wound Healing -- Delivery of Biomolecules Using Chitosan for Tissue Engineering.

Sommario/riassunto

This volume offers an overview of Chitosan's role in facilitating peptide and biomolecule delivery, microbial resistance in wound care, tissue engineering, hemostasis, and drug delivery. It further delves into the challenges and potential applications of chitosan and its chemically modified derivatives within the pharmaceutical industry, with a particular focus on ocular and oral drug delivery, as well as targeted drug delivery systems. Moreover, this volume sheds light on the prominent use of chitosan and its derivatives, whether in their original forms or as membranes, beads, scaffolds, or films, within the domains of tissue engineering, wound healing, and hemostasis. Collectively, this comprehensive exploration aims to enhance our understanding of recent advancements and innovative chitosan-based systems in pharmaceutical and nutraceutical applications, thereby illuminating the myriad possibilities that lie ahead.
