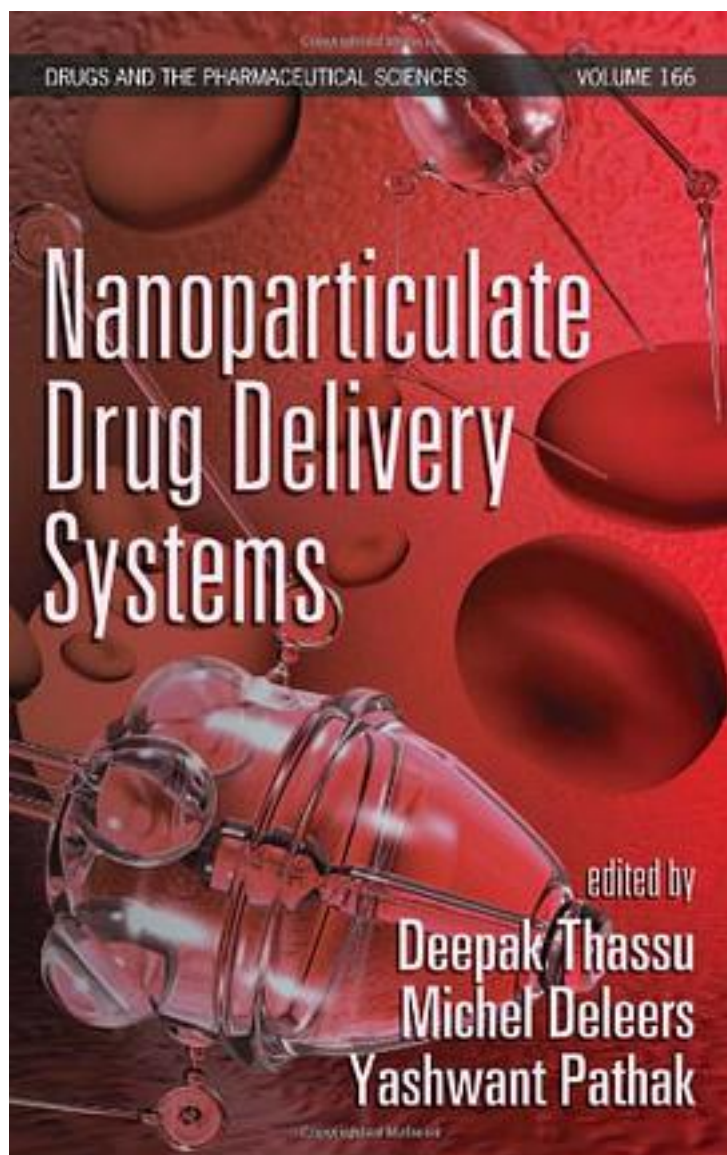


Nanoparticulate Drug Delivery Systems



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With the advent of analytical techniques and capabilities to measure particle sizes in nanometer ranges, there has been tremendous interest in the use of nanoparticles for more efficient methods of drug delivery. Nanoparticulate Drug Delivery Systems addresses the scientific methodologies, formulation, processing, applications, recent trends, and emerging technologies in the research of nanoparticulate drug delivery systems (NPDDS). It extensively covers applications of NPDDS- including lipid nanoparticles for dermal applications; nanocarriers for the treatment of restenosis; and for ocular, central nervous system, and gastrointestinal applications. It also explores its use as an adjuvant for vaccine development. Supplying insight from international experts, this guide Discusses formulation for poorly soluble drugs Presents biological requirements for nanotherapeutic applications Demonstrates the role of nanobiotechnology in the development of nanomedicine Documents recent advances in nanoparticulate technology-including electrospinning, formation of microcrystals, and production of liquid crystalline phases Examines the technology of metallic nanoparticles

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