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Delivery Systems and Lipid Transport; Introduction; Lipid Uptake and Transport; Engineered Lipid Delivery Systems; Microemulsions (ES ) and Self-emulsification; SMEDS and SEDS in Pharmaceutical Applications; SMEDS and SEDS in Food Applications; Challenges, Opportunities, and Outstanding Issues for SMEDS and SEDS; Conclusion; References

Chapter 7. Applications of Nanotechnology in Pharmaceutical DevelopmentIntroduction; Lipids in Drug Delivery; Nanotechnology in Imaging; Carbon Nanostructures in Drug Delivery; Other Nanoparticles in Drug Delivery; Nanotechnology and Safety Issues; Conclusion; References; Chapter 8. Lipid Nano-Vehicles Based on Lyotropic Liquid Crystals as Drug Delivery Vehicles; Introduction; Novel Hexagonal Mesophases; Phase Behavior; HII Mesophase Composed of GMO/Triglyceride/Water; Main Applications of HII Mesophases; Conclusion; References; Chapter 9. Lipid Nanoparticulate Drug Delivery and Nanomedicine

IntroductionLipid Nanoparticles with a Solid Matrix; Pharmaceutical Applications of Lipid Nanoparticles; Product Development and Related Issues in Lipid Nanoparticles; Liposomal Drug Delivery Carriers; Pharmaceutical Applications of Liposomal Nanomedicines; Product Development and Related Issues in Liposomal Nanomedicines; Conclusion; References; Contributors; Index

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#### Sommario/riassunto

Nanotechnology is a rapidly expanding field which includes fundamental nanoscale phenomena and processes, nanomaterials, nanoscale devices and systems, nanomanufacturing, and benefits and risks of nanotechnology. This book serves as a valuable reference and resource for those interested in the field of nanotechnology - from basic research to engineering aspects of nanoparticles. It covers thermodynamics to engineering aspects of nanoparticles or nanoemulsions; synthesis and applications of surface active lipids to food and cosmetics; and pharmaceutical applications to nanomedicine.

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