

# Industrial Polymers, Specialty Polymers, and Their Applications (Plastics Engineering)

By Manas Chanda, Salil K. Roy



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Derived from the fourth edition of the well-known *Plastics Technology Handbook*, **Industrial Polymers, Specialty Polymers, and Their Applications** covers a wide range of general and special types of polymers, along with a wealth of information about their applications.

The book first focuses on commonly used industrial polymers, including polypropylenes, low- and high-density polyethylenes, and poly(vinyl chloride), as well as less widely used polymer types, such as acrylics, ether polymers, cellulosics, sulfide polymers, silicones, polysulfones, polyether ether ketones, and polybenzimidazoles. It then explores polymer derivatives and polymeric combinations that play special and often critical roles in diverse fields of human activities. The polymers covered include liquid crystal, electroactive, ionic, and shape memory polymers; hydrogels; and nanocomposites. The volume concludes with a comprehensive overview of new developments in the use of polymers in a variety of areas.



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