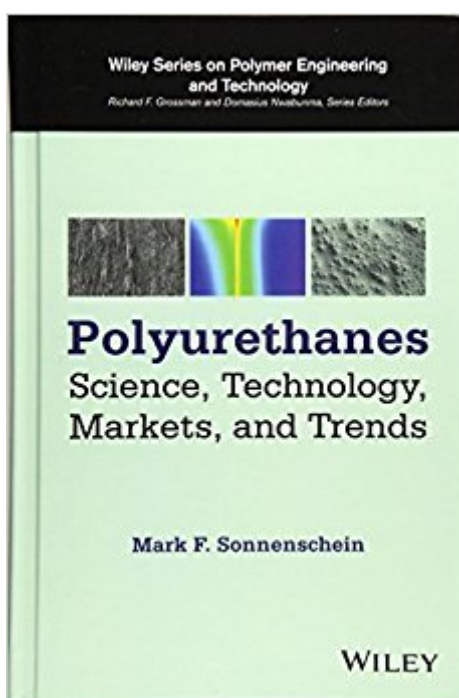


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Polyurethanes: Science, Technology, Markets, And Trends (Wiley Series On Polymer Engineering And Technology)



Synopsis

A complete overview of a key plastic One of the most versatile polymer materials, polyurethanes have a unique chemical nature that allows for shaping and molding to fit all sorts of consumer and industrial products – seat cushions, carpets, insulation, coatings, and refrigerators to name a few. Despite its popular uses, polyurethane science has only relatively recently achieved appreciation for the richness of its expression as a polymer family. This book provides a thorough presentation of polyurethane science, technology markets and trend analysis based on recent patents. Although it does not provide ultimate detail (such as explicit information typically in patents), the book has a flow and continuity that allows readers to find all the background necessary to understand any other more detailed polyurethane information found elsewhere. Anyone involved in the polymer and plastics industry will find this book a key resource with features that include: An in-depth summary of the current state of polyurethane research and knowledge Discussion of the applications, manufacture, and markets for polyurethanes Analytical methods, reaction mechanisms, morphology, theoretical techniques, and the selection of chain extenders Polyurethane flexible and rigid foams, elastomers, coatings, adhesives, and medical applications In-depth coverage of governmental regulations, non-isocyanate/non-phosgene routes to polyurethane structure, and industrial routes to environmental, health, and safety risk mitigation

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Mark Sonnenschein is a Fellow in the Material Sciences Division at the Dow Chemical Company. He holds 36 US and international patents and is the author of over 50 refereed journal articles and the chapter “Polyurethanes” in Wiley’s Encyclopedia of Polymer Science and Technology.

that’s really good!

Excellent new up-to-date addition to Polyurethanes knowledge

An excellent overview of polyurethane chemistry, useful both as an introduction to the field and as a reference. Includes fundamental discussions of polyurethane synthesis, characterization, and structure-property relationships, as well as manufacturing and marketing information for diverse classes of polyurethane products (flexible and rigid foams, elastomers, adhesives, coatings, and medical applications). As the author notes, polyurethane products surround us!

Great overview of almost all aspects of PU. I have years of experience on PU materials and thought I knew about the whole picture of this field. But after reading half the book, I already found lots of

helpful information. I would recommend this book to anyone who works with PU, from students who want to learn more besides from textbooks to experienced researchers who need to stay up-to-date.

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