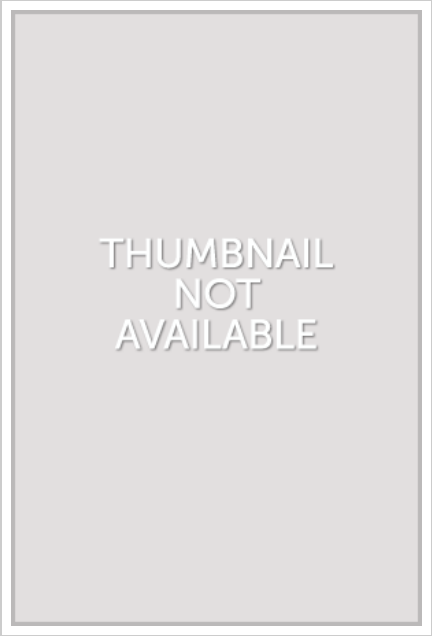


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Biobased Monomers, Polymers, and Materials

By Patrick B. Smith, Richard B. Gross

Oxford University Press Inc. Hardback. Book Condition: new. BRAND NEW PRINT ON DEMAND., Biobased Monomers, Polymers, and Materials, Patrick B. Smith, Richard B. Gross, This ACS Symposium Series is the product of a symposium held at the 241st National Meeting of the American Chemical Society in Anaheim, CA on March 27-31, 2011. It includes chapters on new biobased building blocks such as the furandicarboxylic acid, polyesters and polyamides from adipic, succinic and sebacic acids with aliphatic diols such as 1,3-propylene glycol, 1,4-butanediol, 1,12-dodecylenediol and isosorbide. The conversion of hydroxymethylfurfural, the dehydration product of hexose sugars, to succinic acid and 1,4-butanediol to produce poly(butylene succinate) is described in one chapter. Also the synthesis of new polymers from plant-derived olefinic monomers such as tulipalin A and studies of composites from cotton by-products are featured in other chapters. There is a strong emphasis on biocatalytic synthesis and polymerization within the book. Chapter topics include the synthesis of ?-hydroxyfatty acids and polymers therefrom, an interesting discussion on the structural differences of the products of the biocatalytic and chemical catalytic synthesis of polyesters from oleic diacid and glycerol and the ability to produce polylactic acid (PLA) and PLA-PHA copolyesters within a "microbial cell factory". Other...

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