



Feedstocks for the Future: Renewables for the Production of Chemicals and Materials (Hardback)

By -

Oxford University Press Inc, United States, 2006. Hardback. Book Condition: New. 231 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****.Today's petrochemical industry is an amazing model of production efficiency, taking crude oil and supplying thousands of discrete chemicals and materials from just seven primary building blocks. Renewable raw materials offer a new set of primary building blocks including carbohydrates in the form of cellulose, starch, hemicellulose, and monomeric sugars, aromatics in the form of lignin, hydrocarbons in the form of fatty acids and polyols in the form of glycerol. Yet chemical production today is overwhelmingly dominated by crude oil, principally because conversion technology for renewables still lags far behind that available for nonrenewables. Technology is needed that will lead to renewables based chemical processes that rival or exceed the diversity and efficiency of today's chemical industry. The cellulose and Renewable Materials division (CELL) of American Chemical Society offered a forum for this topic Feedstocks for the Future: Renewables for the production of Chemical and Materials, at the national ACS meeting in Anaheim, CA, March 28-April 1, 2004. This symposium included discussions of emerging conversion technologies for renewable building blocks, new mechanistic understanding...



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