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Autore	PETERSEN, Peter
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Nota di contenuto	Title Page; Copyright; Table of Contents; List of Contributors; Preface; Volume 1; Part I: Drop-in Bio-Based Chemicals; Chapter 1: Olefins from Biomass; 1.1 Introduction; 1.2 Olefins from Bioalcohols; 1.3 Alternative Routes to Bio-Olefins; 1.4 Conclusions; References; Chapter 2: Aromatics from Biomasses: Technological Options for Chemocatalytic Transformations; 2.1 The Synthesis of Bioaromatics; 2.2 The Synthesis of Bio-p-Xylene, a Precursor for Bioterephthalic Acid; 2.3 The Synthesis of Bioterephthalic Acid without the Intermediate Formation of p-Xylene 2.4 Technoeconomic and Environmental Assessment of Bio-p-Xylene ProductionReferences; Chapter 3: Isostearic Acid: A Unique Fatty Acid with Great Potential; 3.1 Introduction; 3.2 Biorefinery and Related Concepts; 3.3 Sustainability of Oils and Fats for Industrial Applications; 3.4 Fatty Acids; 3.5 Polymerization of Fatty Acids; 3.6 ISAC; 3.7 Other Branched Chain Fatty Acids; 3.8 Properties of ISAC; 3.9 Applications of ISAC; 3.10 Selective Routes for the Production of ISAC; 3.11 Summary and Conclusions; Acknowledgments; References Chapter 4: Biosyngas and Derived Products from Gasification and Aqueous Phase Reforming4.1 Introduction; 4.2 Biomass Gasification; 4.3 Aqueous Phase Reforming; References; Chapter 5: The Hydrogenation of Vegetable Oil to Jet and Diesel Fuels in a Complex Refining Scenario; 5.1 Introduction; 5.2 The Feedstock; 5.3 Hydroconversion Processes of Vegetable Oils and Animal Fats; 5.4 Chemistry of Triglycerides Hydroconversion; 5.5 Life Cycle Assessment and Emission; 5.6 The Green Refinery Project; 5.7 Conclusions; References; Part II: Bio-Monomers Chapter 6: Synthesis of Adipic Acid Starting from Renewable Raw Materials6.1 Introduction; 6.2 Challenges for Bio-Based Chemicals Production; 6.3 Choice of Adipic Acid as Product Target by Rennovia; 6.4 Conventional and Fermentation-Based Adipic Acid Production Technologies; 6.5 Rennovia's Bio-Based Adipic Acid Production Technology; 6.6 Step 1: Selective Oxidation of Glucose to Glucaric Acid; 6.7 Step 2: Selective Hydrodeoxygenation of Glucaric Acid to Adipic Acid; 6.8 Current Status of Rennovia's Bio-Based Adipic Acid Process Technology 6.9 Bio- versus Petro-Based Adipic Acid Production Economics6.10 Life Cycle Assessment; 6.11 Conclusions; References; Chapter 7: Industrial Production of Succinic Acid; 7.1 Introduction; 7.2 Market and Applications; 7.3 Technology; 7.4 Life Cycle Analysis; 7.5 Conclusion; References; Chapter 8: 2,5-Furandicarboxylic Acid Synthesis and Use; 8.1 Introduction; 8.2 Synthesis of 2,5-Furandicarboxylic Acid by Oxidation of HMF; 8.3 Synthesis of 2,5-Furandicarboxylic Acid from Carbohydrates and Furfural; 8.4 2,5-Furandicarboxylic Acid-Derived Surfactants and Plasticizers 8.5 2,5-Furandicarboxylic Acid-Derived Polymers