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Front Cover; INDUSTRIAL BIOREFINERIES AND WHITE BIOTECHNOLOGY; Copyright; CONTENTS; LIST OF CONTRIBUTORS; PREFACE; PART A - Industrial Biorefineries; Chapter 1 - Biorefinery Concepts in Comparison to Petrochemical Refineries; 1. INTRODUCTION; 2. THE DEFINITION FOR BIOREFINERY; 3. THE ECONOMIC VALUE OF BIOMASS USING BIOREFINING; 4. CLASSIFICATION OF BIOREFINERIES; 5. CONVENTIONAL BIOREFINERIES; 6. ADVANCED BIOREFINERIES; 7. WHOLE CROP BIOREFINERY; 8. OLEOCHEMICAL BIOREFINERY; 9. LIGNOCELLULOSIC FEEDSTOCK BIOREFINERY; 10. SYNGAS PLATFORM BIOREFINERY (THERMOCHEMICAL BIOREFINERY); 11. NEXT GENERATION HYDROCARBON BIOREFINERY; 12. GREEN BIOREFINERY; 13. MARINE BIOREFINERY; 14. CHAIN DEVELOPMENT; 15. BIOREFINERY CONCEPTS IN COMPARISON TO PETROCHEMICAL REFINERIES; 16. BIOREFINERY COMPLEXITY INDEX; 17. DISCUSSION AND CONCLUSIONS; REFERENCES; Chapter 2 - Algal Biorefineries; 1. INTRODUCTION; 2. ALGAL RESEARCH IN THE USA; 3. MACROALGAE; 4. MICROALGAE; 5. DOWNSTREAM PROCESSES; 6. PRODUCTS PRODUCED FROM ALGAE AT COMMERCIAL SCALES; 7. CONCLUSIONS; REFERENCES; Chapter 3A - Pulp Mills and Wood-Based Biorefineries; 1. GENERAL ASPECTS; 2. PULPING PROCESSES AND THEIR BY-PRODUCTS; 3. PRETREATMENTS OF WOOD CHIPS PRIOR TO PULPING; 4. THERMOCHEMICAL CONVERSION METHODS; 5. CONCLUSIONS; REFERENCES; Chapter 3B - The Pine Biorefinery Platform Chemicals Value Chain; 1. INTRODUCTION; 2. EXTRACTABLE VOLATILE OILS; 3. THE TALL OIL VALUE CHAIN; 4. CONCLUSION; REFERENCES; Chapter 4A - Sugar- and Starch-Based Biorefineries; 1. INTRODUCTION; 2. SUGAR AND STARCH CROPS; 3. SUGARBEET REFINING AND PROCESSING; 4. ALCOHOLIC FERMENTATION; 5. THE ETHANOL-BASED C2-VALUE CHAIN; 6. BEYOND C2 PLATFORM CHEMICALS BY FERMENTATION; 7. SUCROCHEMISTRY; 8. STARCH REFINING AND PROCESSING; 9. STARCH USES; 10. CONCLUSIONS; ACKNOWLEDGMENT; REFERENCES; Chapter 4B - Ethanol from Sugarcane in Brazil: Economic Perspectives; 1. INTRODUCTION; 2. ETHANOL FROM SUGARCANE IN BRAZIL: CONTEXT AND EVOLUTION; 3. ECONOMIC ASPECTS OF ETHANOL FROM SUGARCANE IN BRAZIL; 4. FINAL REMARKS; REFERENCES; Chapter 5 - Vegetable Oil Biorefineries; 1. INTRODUCTION; 2. VEGETABLE OIL FEEDSTOCK; 3. THE WHOLE-PLANT BIOREFINERY CONCEPT-FROM PLANTS TO INDUSTRIAL PRODUCTS; 4. INDUSTRIAL VEGETABLE OIL BIOREFINERIES; 5. FUTURE CHALLENGES OF INDUSTRIALIZATION; 6. CONCLUSIONS AND PERSPECTIVES; REFERENCES; Chapter 6 - Biogas Biorefineries; 1. INTRODUCTION; 2. SUBSTRATES FOR BIOGAS PRODUCTION; 3. BIOGAS UTILIZATION; 4. THE CHEMICAL PLATFORM METHANE; 5. FERTILIZER PRODUCTION; 6. MASS AND ENERGY BALANCES; 7. OTHER BIOREFINERY CONCEPTS WITH STRONG FOCUS ON BIOGAS PRODUCTION; 8. PERSPECTIVES OF BIOGAS BIOREFINERIES; REFERENCES; Chapter 7 - Civilization Biorefineries: Efficient Utilization of Residue-Based Bioresources; 1. INTRODUCTION; 2. PRIMARY, SECONDARY, TERTIARY, AND QUATERNARY BIORESOURCES; 3. CIVILIZATION BIOREFINERIES; 4. APPROACHES TOWARD CIVILIZATION BIOREFINERIES; REFERENCES; Chapter 8 - Biomass Pyrolysis for Hybrid Biorefineries

Industrial Biorefineries and White Biotechnology provides a comprehensive look at the increasing focus on developing the processes and technologies needed for the conversion of biomass to liquid and gaseous fuels and chemicals, in particular, the development of low-cost technologies. During the last 3-4 years, there have been scientific and technological developments in the area; this book

represents the most updated information and technological perspective on the topic. Provides information on the most advanced and innovative pretreatment processes and technologies for biomassCovers in

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