

BiorefineriesCyclic EconomyBiorefinery: From Biomass to Chemicals and FuelsConnecting People with Jobs Impact Evaluation of Active Labour Market Policies in PortugalNonlinear DynamicsCarbohydrate Chemistry Michele Aresta Michele Aresta Michele Aresta OECD Axelle Amon Amélia Pilar Rauter

Biorefineries Cyclic Economy Biorefinery: From Biomass to Chemicals and Fuels Connecting People with Jobs Impact Evaluation of Active Labour Market Policies in Portugal Nonlinear Dynamics Carbohydrate Chemistry *Michele Aresta Michele Aresta Michele Aresta OECD Axelle Amon Amélia Pilar Rauter*

biorefineries compiles the basic science and technologies used to convert terrestrial and aquatic biomass into essential molecular compounds and polymeric materials the book provides in depth insights into this fairly recent concept of industrial chemistry that aims to achieve optimal economic profits while minimizing the environmental impact chapters written by renowned experts cover amongst others the application of catalysis downstream processing biomass sourced olefins lignin biorefinery techniques and biogas the authors thoroughly examine and explain the value chain for biomass conversion into platform molecules and their transformation into final products a comprehensive thematic overview on the topic giving beginners access to fundamental concepts is presented supplemented by numerous full color figures and tables the contents impart knowledge about the involved techniques advanced students and experts in the field will find the summary of state of the art research and current literature of valuable interest explores the enormous potential of biomass conversion as a future source for fuels and chemicals focuses on both general scientific background and current innovations in the field of biorefinery targets students and researchers in chemistry chemical engineering biotechnology and materials science about the editors prof michele aresta chair of the scientific committee of circc in italy and holds the imm chair at the department of chemical and biomolecular engineering at nus singapore he is author of over 200 papers and author or editor

of nine books prof angela dibenedetto associate professor at the department of chemistry of the university of bari italy focused on carbon dioxide utilization by applying biorefinery concepts and director of the interuniversity consortium on chemical reactivity and catalysis circc prof franck dumeignil deputy director of the cnrs joint unit of catalysis and chemistry of solid uccs of lille university france project coordinator of several projects on chemistry including the eurobioref project for designing next generation biorefineries

the first volume of the series carbon cyclic economy presents various policies of recycling carbon in some major countries and the eu advances and best practices are discussed for using alternative carbon such as recycled plastics waste biomass and co₂ each with its characteristic limits for applications in the chemical industry and avio fuels

this updated edition presents topical knowledge and technologies for the thermal chemo and enzymatic catalytic conversion of biomass into chemicals materials and fuels international experts from academia and industry cover the complete value chain from raw materials into final products a new focus discusses feedstock processes and products in potential concepts of future biorefining

the report uses administrative data from different registers in portugal to evaluate the impact of the ativar pt internship programme one of portugal s active labour market policies almps it finds that the programme had a positive impact on employment and earnings within the short term horizon of this evaluation the report makes recommendations for improving the effectiveness of the internship programme and strengthening the capacity of the authorities to conduct almp impact evaluations this report on portugal is the sixteenth in a series of country reports on policies to connect people with better jobs it is prepared as part of the oecd s project with the european commission to help countries improve the quality of administrative data collected and their use in the evaluation of the outcomes and effectiveness of almps

many nonlinear systems around us can generate a very complex and counter intuitive dynamics that contrasts with their simplicity but their understanding requires concepts that are outside the basic training of most science students this textbook which is the fruit of graduate courses that the authors have taught at their respective universities provides a richly

illustrated introduction to nonlinear dynamical systems and chaos and a solid foundation for this fascinating subject it will satisfy those who want discover this field including at the undergraduate level but also those who need a compact and consistent overview gathering the concepts essential to nonlinear scientists the first and second chapters describe the essential concepts needed to describe nonlinear dynamical systems as well as their stability the third chapter introduces the concept of bifurcation where the qualitative dynamical behavior of a system changes the fourth chapter deals with oscillations from their birth to their destabilization and how they respond to external driving the fifth and sixth chapters discuss complex behaviors that only occur in state spaces of dimension three and higher quasi periodicity and chaos from their general properties to quantitative methods of characterization all chapters are supplemented by exercises ranging from direct applications of the notions introduced in the corresponding chapter to elaborate problems involving concepts from different chapters as well as numerical explorations

in many fields most notably medicine and molecular biology the understanding of the structure and function of carbohydrates and glycoconjugates remains vital this new volume contains critical reviews covering the latest findings in both chemical and biological sciences and demonstrates the interdisciplinary nature of modern carbohydrate research this book addresses diverse applications that continue to be major challenges for carbohydrate chemists the book starts with a review of g rard descotes contribution to the field as a pioneer of french modern carbohydrate chemistry green nanocatalytic oxidation of free sugars photosensitive glycomacrocycles the application of disaccharides in supramolecular chemistry recent advances in the radiation chemistry of polysaccharides and the cell wall pectic rhamnogalacturonan ii an enigma in plant glycobiology are just some of the diverse topics presented in volume 45 this set of reports will certainly benefit any researcher who wishes to learn about the latest developments in the carbohydrate field

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