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in India -- Chapter 15. Energy Solutions for Agricultural Machinery – From the Oil Era Towards a Sustainable Bioeconomy -- Part 5. Sustainability Constraints and Prospects -- Chapter 16. Embedding Sustainability Strategies to Protect God's Gift: The Earth -- Chapter 17. Biological Degradation of Odorous Air Pollutants -- Chapter 18. A Systematic Approach for Assessing and Managing the Urban Bioeconomy -- Part 6. Innovative Energy Solutions -- Chapter 19. Innovation in Bioenergy - Factors Affecting Innovation in Biofuels -- Chapter 20. Increasing Flexibility of Biogas Plants Through the Application of Innovative Concepts -- Chapter 21. Case Study for Status and Exploration of Microalgae in Egypt -- Part 7. Bioeconomic Catalysts of Socio-Economic Development -- Chapter 22. Approaches on Bioeconomy Education -- Chapter 23. Bio-Economy as Proponent of Digital Meanings Society -- Chapter 24. New Humanism: A Vital Component of Sustainable Socio-Technical Change -- Part 8. The Way Ahead, Key Trends and Lessons -- Chapter 25. Bioeconomy in the 21st Century: Global Trends Analysis Perspectives -- Chapter 26. Responsible Innovation in Industry: The Role of a Firm's Multi-Stakeholder Network -- Chapter 27 -- Inclusion and Resilience in the Bioeconomy.

Sommario/riassunto

This volume presents a timely recognition, warning and mapping of the fast approaching wave, or “bio-tsunami”, of global socio-technical transformation, built by a much wider spectrum of converging powers, including biotechnology, new agriculture, novel foods, health, quality of life, environment, energy, sustainability, education, knowledge management, and design of smart applications. The book contains eight sections corresponding to different clusters of bioeconomic and socio-technical change, as identified by the editors’ “Scanning the Horizon” foresight research; it also offers an integrated view of the future bioeconomy landscape through the convergence of several technologies that affect everyday life. The clusters offer methodologies for forecasting the future bioeconomy, and how these predictions can affect target-setting and the orientation of policies and actions to manage cultural and societal change, and achieve sustainable development in less developed areas. The book will be of interest to researchers, producers, logistics experts, policy makers, regulators, business and financial institutions, and biotechnologists (e.g. geneticists, food experts, etc.).
