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One of the most important issues in developing sustainable management strategies and incorporating ecodesigns in production, manufacturing and operations management is the assessment of the sustainability of business operations and organizations' overall environmental performance. The book presents the results of recent studies on sustainability assessment. It provides a solid reference for researchers in academia and industrial practitioners on the state-of-the-art in sustainability appraisal including the development and application of sustainability indices, quantitative methods, models and frameworks for the evaluation of current and future welfare outcomes, recommendations on data collection and processing for the evaluation of organizations' environmental performance, and eco-efficiency approaches leading to business process re-engineering.

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Sustainability Appraisal is a sourcebook of the state-of-the-art of this rapidly emerging and diversifying area. It draws on a wealth of international experiences and approaches to illustrate the status and scope of Sustainability Appraisal/Assessment (SA) This comprehensive guide highlights how SA can be used to analyse and integrate the key environmental, social and economic pillars of sustainability into decision-making at all levels, from policy to project to investment, by government, business and industry, or international organizations. Distilling both published and unpublished materials, and with contributions from a range of leading experts, organizations and agencies, this book will be of significant value to professionals everywhere who are in need of a solid, reference guide to what constitutes SA practice and, more importantly, how and when it can be applied.

This book deals with a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. It is a discipline that addresses current issues: climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control and biodiversity depletion. This series gathers review articles that analyze current agricultural issues and knowledge, then proposes alternative solutions.

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In this Open Access publication Claudia Lemke develops a comprehensive Multi-Level Sustainable Development Index (MLSDI) that is applicable to micro, meso, and macro objects by conducting methodological and empirical research. Multi-level comparability is crucial because the Sustainable Development Goals (SDGs) at macro level can only be achieved if micro and meso objects contribute. The author shows that a novel information-theoretic algorithm outperforms established multivariate statistical weighting methods such as the principal component analysis (PCA). Overcoming further methodological shortcomings of previous sustainable development indices, the MLSDI avoids misled managerial and political decision making.

As well as taking stock of the current and proposed legal instruments, the book looks at the wider policy and economic aspects of coping with climate change. It provides a comparative overview of key issues across Europe, the United States, Asia-Pacifi

An extensive update and sequel to the successful title Renewables-Based Technology: Sustainability Assessment. Over the past decade, the field of renewable resources has grown tremendously and sustainability assessment methods have undergone significant changes and improvements. This book brings together the wide range of sustainability assessment methods in current use, together with case studies to demonstrate their applications. The book is divided into four sections as follows: Part 1 - Introduction: Discusses the growing role of renewables as resources and their applications, together with an introduction to the principles of sustainability assessment Part 2 - Assessment Methods: Presents a wide variety of sustainability assessment methods and tools that are currently used. This includes land, water-and material use analysis, energy and exergy use, carbon footprints, life cycle analysis, ecological footprints, life cycle costing, social sustainability analysis, Prosuite methodology and Seebalance (the SocioEcoEfficiency Analysis developed by BASF. Part 3 - Case Studies: Provides context buy demonstrating the application of these methods within the major industries benefiting from renewables. The case studies apply sustainability assessment methods to the production of renewable energy (wind energy, solar energy and biofuels), bio-based chemicals and bio-based materials. Part 4 - Conclusions

This monograph addresses the methodological and empirical issues relevant for the development of sustainable agriculture, with a particular focus on Eastern Europe. It relates economic growth to the other dimensions of sustainability by applying integrated methods. The book comprises five chapters dedicated to the theoretical approaches towards sustainable rural development, productivity analysis, structural change analysis and environmental footprint. The book focuses on the transformations of the agricultural sector while taking into account economic, environmental, and social dynamics. The importance of agricultural transformations to the livelihood of the rural population and food security are highlighted. Further, advanced methodologies and frameworks are presented to fathom the underlying trends in different facets of agricultural production. The authors present statistical methods used for the analysis of agricultural sustainability along with applications for agriculture in the European Union. Additionally, they discuss the measures of efficiency, methodological approaches and empirical models. Finally, the book applies econometric and optimization techniques, which are useful for the estimation of the production functions and other representations of technology in the case of the European Union member states. Therefore, the book is a must-read for researchers and students of agricultural and production economics, as well as policy-makers and academia in general.

Sustainable Development and Innovations in Marine Technologies includes the papers presented at the 18th International Congress of the Maritime Association of the Mediterranean (IMAM 2019, Varna, Bulgaria, 9-11 September 2019). Sustainable Development and Innovations in Marine Technologies includes a wide range of topics: Aquaculture & Fishing; Construction; Defence & Security; Design; Dynamic response of structures; Degradation/ Defects in structures; Electrical equipment of ships; Human factors; Hydrodynamics; Legal/Social aspects; Logistics; Machinery & Control; Marine environmental protection; Materials; Navigation; Noise; Non-linear motions – manoeuvrability; Off-shore and coastal development; Off-shore renewable energy; Port operations; Prime movers; Propulsion; Safety at sea; Safety of Marine Systems; Sea waves; Seakeeping; Shaft & propellers; Ship resistance; Shipyards; Small & pleasure crafts; Stability; Static response of structures; Structures, and Wind loads. The IMAM series of Conferences started in 1978 when the first Congress was organised in Istanbul, Turkey. IMAM 2019 is the eighteenth edition, and in its nearly forty years of history, this biannual event has been organised throughout Europe. Sustainable Development and Innovations in Marine Technologies is essential reading for academics, engineers and all professionals involved in the area of sustainable and innovative marine technologies.

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