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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,

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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 Distilling both published and unpublished materials, and with contributions from a range of leading experts, organizations and agencies, this book will be of significant value to professionals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.

The Handbook of Sustainability Assessment introduces the theory and practice of sustainability assessment and showcases the state-of-the-art research. The aim is to provide inspiration and guidance to students, academics and practitioners alike and to contribute to the enhancement of sustainability assessment practice worldwide. It emphasises how traditional impact assessment practices can be enhanced to contribute to sustainable outcomes. Featuring original contributions from leading sustainability assessment researchers and practitioners, it forms part of the Research Handbooks on Impact Assessment series.

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.

This book is for students and researchers across the social sciences who are planning, conducting and disseminating research on sustainability-related issues. Real-world sustainability problems cross many boundaries, and this is the first book to guide students and practitioners through the practical and theoretical challenges of doing interdisciplinary research in this vital and emerging area. Researching Sustainability contains many in-depth, 'hands on' accounts by expert contributors, providing real-life examples and lessons that can be put to use immediately. Coverage includes: the general challenges that sustainability presents to researchers, including frictions between sustainability and scientific tradition; complexity; research paradigms; interdisciplinarity; social-environmental interactions; and ethical concerns. a host of social science based research methods and approaches. Each chapter presents a different method; its challenges and suitability for different situations; an in-depth example of the method in action; insights and lessons. dissemination of sustainability research findings, including influencing policy, communicating with school children and working with the media. The book concludes with a critical synthesis of issues and methods examined in the book together with a discussion of future research pathways. This book is an essential tool for students, researchers and practitioners in planning, implementing and evaluating their sustainability research.

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Sustainability Assessment is an increasingly important tool for informing planning and development decisions across the globe. Required by law in some countries, strongly recommended in others, a comprehensive analysis of why Sustainability Assessment is needed and clarification of the value-laden and political nature of assessments is long overdue. Currently the writing on the subject is limited and comprises, for the most part, guidance documents and completed assessments. This book overcomes these shortcomings by simultaneously providing the knowledge, inspiration and range of assessment tools in decision-making students require to tackle Sustainability Assessment challenges nested within wide-ranging values and sustainability-grounded evidence. The collection details the current state-of-the-art in relation to Sustainability Assessment theory and practice, and considers the pluralistic nature of the tool and the implications for achieving sustainable decision-making. The contributors set out the context for Sustainability Assessment and then outline some contested issues which can affect interpretations of whether the decision tool has been effective. Current practice worldwide is assessed against a consistent framework and then solutions to some of the inherent weaknesses and causes of conflict in relation to the perceived sustainability of outcomes are put forward. The book is unique in setting out state-of-the-art in terms of Sustainability Assessment practice by focusing on those countries with developing experience. It also covers emerging factors influencing effectiveness of decision-making tools and evaluates how they affect the performance of Sustainability Assessment. Written by authors among the leading university academics teaching impact assessment courses in the most acclaimed universities worldwide operating in this field, it is ideally suited for the growing numbers of courses in impact assessment education and training.

Methods in Sustainability Science: Assessment, Prioritization, Improvement, Design and Optimization presents cutting edge, detailed methodologies needed to create sustainable growth in any field or industry, including life cycle assessments, building design, and energy systems. The book utilized a systematic structured approach to each of the methodologies described in an interdisciplinary way to ensure the methodologies are applicable in the real world, including case studies to demonstrate the methods. The chapters are written by a global team of authors in a variety of sustainability related fields. Methods in Sustainability Science: Assessment, Prioritization, Improvement, Design and Optimization will provide academics, researchers and practitioners in sustainability, especially environmental science and environmental engineering, with the most recent methodologies needed to maintain a sustainable future. It is also a necessary read for postgraduates in sustainability, as well as academics and researchers in energy and chemical engineering who need to ensure their industrial methodologies are sustainable. Provides a comprehensive overview of the most recent methodologies in

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sustainability assessment, prioritization, improvement, design and optimization Sections are organized in a systematic and logical way to clearly present the most recent methodologies for sustainability and the chapters utilize an interdisciplinary approach that covers all considerations of sustainability Includes detailed case studies demonstrating the efficacies of the described methods

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

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.

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