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Handbook of Research on Pedagogical Innovations for Sustainable Development

Ken D. Thomas (Auburn University, USA) and
Helen E. Muga (University of Mount Union, USA)
ISBN: 978-1-4666-5856-1; © 2014; 800 pp.

Brings together case study examples in the fields of sustainability, sustainable development, and education for sustainable development. This book will be an essential reference for educators, teachers, trainers at all levels of education, sustainable development practitioners, education policy makers, and the public at large.

Green Technology Applications for Enterprise and Academic Innovation

Ezendu Ariwa (University of Bedfordshire, UK)
ISBN: 978-1-4666-5166-1; © 2014; 335 pp.

Addresses the importance of green technology and sustainability for technology, enterprise, and academic innovation in energy management, renewable energy, and carbon reduction strategies. This book acts as the bridge for practitioners, academia, businesses, industrialists, governmental executives, and students seeking research in this emerging area.

E-Innovation for Sustainable Development of Rural Resources During Global Economic Crisis

Zacharoula Andreopoulou (Aristotle University of Thessaloniki, Greece), Vagis Samathrakis (Alexander Technological Educational Institute of Thessaloniki, Greece), Soulla Louca (University of Nicosia, Cyprus), and Maro Vlachopoulou (University of Macedonia, Greece)
ISBN: 978-1-4666-4550-9; © 2014; 317 pp.

Brings together a multidisciplinary exchange of knowledge on the application of electronic and mobile innovations towards the sustainable development of the economy. Providing an opportunity to identify effective e-innovation and successful practices, this book is essential for researchers, students, rural developers, and academics in the fields of economics, sustainable development, informatics, and the environment.

Sustainable Technologies, Policies, and Constraints in the Green Economy

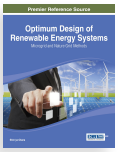
Andrei Jean-Vasile (Petroleum and Gas University of Ploiesti, Romania), Turek Rahoveanu Adrian (Institute of Research for Agricultural Economics and Rural Development, Romania), Jonel Subic (Institute of Agricultural Economics, Belgrade, Serbia), and Dorel Dusmanescu (Petroleum and Gas University of Ploiesti, Romania)
ISBN: 978-1-4666-4098-6; © 2013; 390 pp.

Carefully investigates the complex issues which surround the wide array of concepts, policies, and measures that come into play when promoting this somewhat new ideology. This publication covers over 50 years of research in the field in order to provide the best theoretical frameworks and empirical research to its readers. Professors, researchers, practitioners, and students will all benefit from the relevant discussions and diverse conclusions which are revealed in these chapters.

Cases on the Diffusion and Adoption of Sustainable Development Practices

Helen E. Muga (University of Mount Union, USA) and
Ken D. Thomas (Auburn University, USA)
ISBN: 978-1-4666-2842-7; © 2013; 321 pp.

A collection of case studies on the concepts and theories of successful sustainable practices. It also identifies key mechanisms and strategies that have allowed the successful diffusion of these practices into communities, regions and nations around the world. This reference source is essential for professionals, researchers, educators and leaders in pursuit of innovative solutions in sustainable development.



Optimum Design of Renewable Energy Systems: Microgrid and Nature Grid Methods

Shin'ya Obara (Kitami Institute of Technology, Japan)
ISBN: 978-1-4666-5796-0; © 2014; 430 pp.

Investigates the development of highly efficient energy storage equipment and of operation optimization technology of compound energy systems. This book is an essential reference source for technical consultants, urban environment engineers, and energy researchers interested in the development of efficient energy systems and operation optimization technology.

Sustainability Science for Social, Economic, and Environmental Development

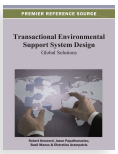
Nilanjan Ghosh (Multi Commodity Exchange of India Limited, India) and Anandajit Goswami (The Energy and Resources Institute, India)
ISBN: 978-1-4666-4995-8; © 2014; 324 pp.

Investigates the role of sustainability in the everyday lives of ordinary citizens, including issues of economy, social interaction, exploitation of natural resources, and sources of renewable energy. In this book, researchers, policy makers, economists, scientists, and general readers will all find crucial insight into the parallels between theory and practice in sustainable development.

Marine Technology and Sustainable Development: Green Innovations

Oladokun Sulaiman Olanrewaju (University Malaysia Terengganu, Malaysia), Abdul Hamid Saharuddin (University Malaysia Terengganu, Malaysia), Ab Saman Ab Kader (Universiti Teknologi Malaysia, Malaysia), and Wan Mohd Norsani Wan Nik (University Malaysia Terengganu, Malaysia)
ISBN: 978-1-4666-4317-8; © 2014; 338 pp.

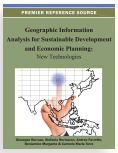
Examines theoretical frameworks and empirical research in the maritime industry, evaluating new technologies, methodologies, and practices against a backdrop of sustainability. This critical reference encourages the discussion and exploration of diverse opinions on the benefits and challenges of new marine technologies essential for marine and maritime professionals, researchers, and scholars hoping to improve their understanding of environmental considerations in preserving the world's oceanic resources.



Transactional Environmental Support System Design: Global Solutions

Jason Papathanasiou (University of Macedonia, Greece), Basil Manos (Aristotle University of Thessaloniki, Greece), Stratos Arampatzis (Tero Ltd, Greece), and Robert Kenward (Anatrack Ltd, UK)
ISBN: 978-1-4666-2824-3; © 2013; 313 pp.

Details the results of this project ranging from studies done in small, local communities to those done in much larger national settings. Survey results of government practices, availability of decision support software, and community responses to data recording are all highlighted in this emerging research. Additionally, the book goes on to emphasize the increasing potential for environmental decision support while directly addressing some of the challenges that must be overcome.



Geographic Information Analysis for Sustainable Development and Economic Planning: New Technologies

Giuseppe Borruso (University of Trieste, Italy), Stefania Bertazzon (University of Calgary, Canada), Andrea Favretto (University of Trieste, Italy), Beniamino Murgante (University of Basilicata, Italy), and Carmelo Maria Torre (Polytechnic of Bari, Italy)
ISBN: 978-1-4666-1924-1; © 2013; 434 pp.

Tackles topics related to, to-date development of Geographic Information in terms of the technologies available for retrieving, managing, and analyzing geographical data. This book is useful for academic staff, as well as postgraduate students (MSc, PhD levels) in GIS, remote sensing, economic geography, spatial planning, geostatistics, and related fields.