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Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods

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Environmental Modeling for Sustainable Regional Development

System Approaches and Advanced Methods



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Understanding the advancement of sustainable development is critical to managing human activities to avoid the overexploitation of resources and pollution of the environment beyond tolerable levels. Sustainable development involves not only preservation and care of the environment, but also recognition of the complex relations between economic, social and living systems.

Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods presents processing methods and their applications, which are practical for decision making and task management at the regional level as well as for scientific studies in sustainable development assessment. This book serves as a reference guide for post-graduate students in the field of management as well as a critical guide for managers, government officials, and information professionals.

Topics Covered:

- Air quality assessment
- Air quality modeling approaches
- Data envelopment analysis in environmental technologies
- Evolutionary computation and machine learning models
- Irrigation water demand
- Modeling regional economic development
- Quality of life modeling at the regional level
- Regional economic performance and environmental quality
- Regional risks assessment
- Wastewater systems management

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Vladimír Olej (prof. MSc. CSc.) was born in Poprad, Slovakia, in 1954. He graduated from the Faculty of Electrical Engineering of the Slovak Technical University in Bratislava in 1979. From 1979 to 1982 he worked for the company TESLA Liptovský Hrádok in the Department of Mechanization and Automation of Production. From 1982 to 1997 he worked at the Technical University in Liptovský Mikuláš as a lecturer in computers and artificial intelligence in the Department of Informatics and Computer Sciences. There he defended his doctoral thesis in 1987 and was an Associate professor (1991) at this department. From 1997 to 2002 he worked at the Matej Bel University, Faculty of Finance and Department of Information Systems in Banská Bystrica as a lecturer of artificial intelligence. Since 2001 he has been a professor in the branch of Technical Cybernetics at Technical University of Ostrava, Czech Republic. Since 2002 he is working as a professor with the Institute of System Engineering and Informatics at the University of Pardubice. He has published a number of papers concerning fuzzy logic, neural networks, genetic algorithms and methods of analysis and synthesis of parallel computers.



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