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This book describes new methods and techniques for the computer modelling of large-scale natural and man-made systems, characterised by a large dimension, high complexity, nonlinearity and uncertainty. The author emphasises the interdependence of complex system analysis, hybrid modelling and simulation, and knowledge-based and fuzzy control engineering.

The theory relating to high complexity systems and hybrid mathematical-heuristic modelling is presented in the first part of the text. Examples of applications in industrial systems, power systems, macroeconomic systems, aquatic ecosystems, terrestrial ecosystems and industrial chemical pollutants then follow.

Providing a valuable new contribution to the field, the book will be of interest to a wide readership including lecturers, postgraduate students, systems analysts, computer scientists, control engineers, and scientists and managers working in ecology, hydrology, forestry, air pollution, environmental protection, industry, power systems and macroeconomics. A CD-ROM containing application software for the modelling, simulation and control of high complexity natural systems and environmental protection accompanies the text.

The author is a well known specialist in modelling and simulation of systems, author of other research monographs and of over 150 articles and scientific communications. He is also a Member of NYAS (New York Academy of Sciences), a Member of the Board of Eurosim (Association of European Simulation Societies) and a Member of the Editorial Board of SIMPRA (Simulation Modelling: Practice and Theory). His biography is published in Who's Who in Science and Engineering.

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