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Titolo	Applied Systems Theory // by Rob Dekkers
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ISBN	3-319-57526-0
Edizione	[2nd ed. 2017.]
Descrizione fisica	1 online resource (XXXV, 315 p. 88 illus.)
Disciplina	670
Soggetti	Industrial engineering Production engineering Production management Mathematical models Industrial design Operations research Decision making Industrial and Production Engineering Operations Management Mathematical Modeling and Industrial Mathematics Industrial Design Operations Research/Decision Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction -- Basic Concepts -- System Approaches -- Processes -- Control of Processes -- Steady-State Model -- Autopoietic Systems -- Complex Adaptive Systems -- Organisations and Breakthrough -- Applications of System Theories.
Sommario/riassunto	Offering an up-to-date account of systems theories and its applications, this book provides a different way of resolving problems and addressing challenges in a swift and practical way, without losing overview and grip on the details. From this perspective, it offers a different way of thinking in order to incorporate different perspectives and to consider multiple aspects of any given problem. Drawing

examples from a wide range of disciplines, it also presents worked cases to illustrate the principles. The multidisciplinary perspective and the formal approach to modelling of systems and processes of 'Applied Systems Theory' makes it suitable for managers, engineers, students, researchers, academics and professionals from a wide range of disciplines; they can use this 'toolbox' for describing, analysing and designing biological, engineering and organisational systems as well as getting a better understanding of societal problems. This revised, updated and expanded second edition includes coverage of abductive reasoning, the relevance of systems theories for research methods and a new chapter about problem analysis and solving based on systems theories.
