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on the subject of this text is the author, MIT Standish Professor of Management and Director of the System Dynamics Group, John D. Sterman.

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He is the author of many
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articles on the challenges
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John Sterman has won the
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individuals who have made exceptional contributions to the society over an extended period of time, on a volunteer basis, in a way that benefits the development and advancement of system dynamics, helps the society achieve its goals, and sets a standard to inspire others.

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1 1 1 Learning in and about
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of Multiple-Loop Systems
(section 1.1.3) It is best
to pose this challenge in
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negative feedback loops using the chicken and egg illustration shown in Figure 1-5. I usually ask people first what the behavior of the system would be if the ...

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a business book it is so much more than that - systems dynamics is way of seeing and thinking about complex situations regardless where they appear. One of the leading authorities on the subject of this text is the author, MIT Standish Professor of Management and Director of the System Dynamics Group, John D. Sterman.

Business Dynamics: Systems Thinking and Modeling for a

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Director, MIT System Dynamics Group John D. Sterman is the Jay W. Forrester Professor of Management at the MIT Sloan

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School of Management and
Director of MIT's System
Dynamics Group. His research
includes systems thinking
and organizational learning,
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Today's leading authority on the subject of this text is the author, MIT Standish Professor of Management and Director of the System Dynamics Group, John D. Sterman. Sterman's objective is to explain, in a true textbook format, what system dynamics is, and how it can be successfully applied to solve business and

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organizational problems.
System dynamics is both a currently utilized approach to organizational problem solving at the professional level, and a field of study in business, engineering, and social and physical sciences.

This book introduces a new paradigm called 'Optimization in Changeable Spaces' (OCS) as a useful tool for decision making and problem solving. It illustrates how OCS incorporates, searches, and constructively restructures the parameters, tangible and intangible, involved in the process of decision making.

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The book elaborates on OCS problems that can be modeled and solved effectively by using the concepts of competence set analysis, Habitual Domain (HD) and the mental operators called the 7-8-9 principles of deep knowledge of HD. In addition, new concepts of covering and discovering processes are proposed and formulated as mathematical tools to solve OCS problems. The book also includes reformulations of a number of illustrative real-life challenging problems that cannot be solved by traditional optimization techniques into OCS problems, and details how

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they can be addressed.

Beyond that, it also includes perspectives related to innovation dynamics, management, artificial intelligence, artificial and e-economics, scientific discovery and knowledge extraction. This book will be of interest to managers of businesses and institutions, policy makers, and educators and students of decision making and behavior in DBA and/or MBA.

This book is published under a CC BY-NC 4.0 license. The editors present essential methods and tools to support a holistic approach to the challenge of system upgrades

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and innovation in the context of high-value products and services. The approach presented here is based on three main pillars: an adaptation mechanism based on a broad understanding of system dependencies; efficient use of system knowledge through involvement of actors throughout the process; and technological solutions to enable efficient actor communication and information handling. The book provides readers with a better understanding of the factors that influence decisions, and put forward solutions to facilitate the rapid adaptation to changes

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in the business environment and customer needs through intelligent upgrade interventions. Further, it examines a number of sample cases from various contexts including car manufacturing, utilities, shipping and the furniture industry. The book offers a valuable resource for both academics and practitioners interested in the upgrading of capital-intensive products and services. "The work performed in the project "Use-It-Wisely (UiW)" significantly contributes towards a collaborative way of working. Moreover, it offers comprehensive system modelling to identify

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business opportunities and develop technical solutions within industrial value networks. The developed UiW-framework fills a void and offers a great opportunity. The naval construction sector of small passenger vessels, for instance, is one industry that can benefit.” Nikitas Nikitakos, Professor at University of the Aegean, Department of Shipping, Trade, and Transport, Greece. “Long-life assets are crucial for both the future competitiveness and sustainability of society. Make wrong choices now and you are locked into a wrong system for a long time. Make

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the right choices now and society can prosper. This book gives important information about how manufacturers can make right choices." Arnold Tukker, Scientific director, Institute of Environmental Sciences (CML), Leiden University, and senior scientist, TNO.

Th Accelerating the diffusion of energy-efficient renovations is a key policy lever in order to reduce the environmental impact of buildings. This book provides a broad, systemic perspective on the causes of the diffusion of energy-efficient renovations

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in Switzerland and policy recommendations for accelerating the diffusion process. Specifically, the book provides a description of the societal problem situation within which the diffusion process takes place and an analysis of the actors involved. It provides a detailed explanation of the causes of the diffusion process that synthesizes insights from the engineering, economics, marketing, sociology, communication studies and political science literature. It employs the System Dynamics methodology to simulate the diffusion process and analyze policy

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levers. The book proposes two regulations and a sketch of a business model as particularly promising public policy interventions. It concludes with an outline of a generic theory of the diffusion of sustainable technologies.

Insightful modelling of dynamic systems for better business strategy The business environment is constantly changing and organisations need the ability to rehearse alternative futures. By mimicking the interlocking operations of firms and industries, modelling serves as a 'dry run' for testing

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ideas, anticipating consequences, avoiding strategic pitfalls and improving future performance. Strategic Modelling and Business Dynamics is an essential guide to credible models; helping you to understand modelling as a creative process for distilling and communicating those factors that drive business success and sustainability. Written by an internationally regarded authority, the book covers all stages of model building, from conceptual to analytical. The book demonstrates a range of in-depth practical examples that vividly illustrate

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important or puzzling
dynamics in firm operations,
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everyday life. This updated
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include a baffling hotel shower, a start-up low-cost airline, an international radio broadcaster, a diversifying tyre maker, commercial fisheries and the global oil industry. "Much more than an introduction, John Morecroft's Strategic Modelling and Business Dynamics uses interactive 'mini-simulators and microworlds' to create an engaging and effective learning environment in which readers, whatever their background, can develop their intuition about complex dynamic systems." John Sterman, Jay W. Forrester Professor of Management, MIT Sloan School

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of Management "Illustrated by examples from everyday life, business and policy, John Morecroft expertly demonstrates how systems thinking aided by system dynamics can improve our understanding of the world around us." Stewart Robinson, Associate Dean Research, President of the Operational Research Society, Professor of Management Science, School of Business and Economics, Loughborough University

"This book examines current developments and challenges in the incorporation of ICT

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in the health system from the vantage point of patients, providers, and researchers. The authors take an objective, realistic view of the shift that will result for patients, providers, and the healthcare industry in general from the increased use of eHealth services"--Provided by publisher.

This book is at once a guide for sustainable development professionals and a handbook for those interested in further studies on sustainability. It not only explains and exemplifies the issues of sustainability

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discussed herein, but it also offers a resource for practitioners in business, local authorities, non-governmental organisations and indeed individuals, wanting to undertake activities directed towards sustainable development. This book consists of 15 chapters supplemented with descriptions of sustainability tools and related case studies in Poland. These case studies are particularly useful for both teaching and practical application. In preparing this book, the authors have applied their extensive practical and research experience in this

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Familiar modes of problem solving may be efficient, but they often prevent us from discovering innovative solutions to more complex problems. To create meaningful change, we must train ourselves to discover previously unseen variables in day-to-day challenges. The Design of Insight is intended to be a personal problem-solving platform for decision makers and advisors who seek answers to critical business questions. It introduces an approach that uses multiple "problem-solving languages" to systematically expand our understanding of problem

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framing and high quality problem solving. Useful as a critical thinking approach or a think-out-loud document for strategic teams, this brief is a resource for enriching and implementing thoughtful management practices.

Water Management Challenges in Global Change contains the proceedings of the 9th Computing and Control for the Water Industry (CCWI2007) and the Sustainable Urban Water Management (SUWM2007) conferences. The rationale behind these conferences is to improve the management of urban water systems through

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the development of computerbased methods. Issues such as economic globalisation, climate changes and water shortages call for a new approach to water systems management, which addresses the relevant technical, social and economic aspects. This collection represents the views of academic and industrial experts from a number of countries, who provide technical solutions to current water management problems and present a vision for addressing the global questions. The themes underlying many of the contributions include energy and material savings, water

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Challenges and the integration of different aspects of water management. The papers are grouped into three themes covering water distribution systems, sustainable urban water management and modelling of wastewater treatment plants. The water distribution topics cover asset and information management, planning, monitoring and control, hydraulic modelling of steady state and transients, water quality and treatment, demand and leakage management, optimisation, design and decision support systems, as well as reliability and security of water

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distribution systems. The sustainable urban water management topics include urban drainage systems, water reuse, social aspects of water management and also selected facets of water resources and irrigation. Computer control of wastewater treatment plants has been seen as less advanced than that of clean water systems. To address this imbalance, this book presents a number of modelling techniques developed specifically for these plants. Water Management Challenges in Global Change will prove to be invaluable to water and environmental engineering

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