

Business Dynamics Systems Thinking And Modeling For A Complex World With Cd Rom John Sterman

The leading authority on system dynamics explains this approach to organizational problem solving, emphasizing simulation models to understand issues such as fluctuating sales, market growth and stagnation, the reliability of forecasts and the rationality of business decision-making. The CD includes modeling software from Vensim, ithink, and PowerSim.

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 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.

Business Dynamics: Systems Thinking and Modeling for a Complex World with CD-ROM McGraw-Hill Education

The U.S. economy is highly dynamic: businesses open and close, workers switch jobs and start new enterprises, and innovative technologies redefine the workplace and enhance productivity. With globalization markets have also become more interconnected. Measuring business activity in this rapidly evolving environment increasingly requires tracking complex interactions among firms, establishments, employers, and employees. Understanding Business Dynamics presents strategies for improving the accuracy, timeliness, coverage, and integration of data that are used in constructing aggregate economic statistics, as well as in microlevel analyses of topics ranging from job creation and destruction and firm entry and exit to innovation and productivity. This book offers recommendations that could be enacted by federal statistical agencies to modernize the measurement of business dynamics, particularly the production of information on small and young firms that can have a disproportionately large impact in rapidly expanding economic sectors. It also outlines the need for effective coordination of existing survey and administrative data sources, which is essential to improving the depth and coverage of business data.

CD-ROM contains: Simulation software and Models including ithink, Powersim, and Vensim. Heterostructured (HS) materials represent an emerging class of materials that are expected to become a major research field for the communities of materials, mechanics, and physics in the next couple of decades. One of the biggest advantages of HS materials is that they can be produced by large-scale industrial facilities and technologies and therefore can be commercialized without the scaling up and high-cost barriers that are often encountered by other advanced materials. This book collects recent papers on the progress in the field of HS materials, especially their fundamental physics. The papers are arranged in a sequence of chapters that will help new researchers entering the field to have a quick and comprehensive understanding of HS materials, including the fundamentals and recent progress in their processing, characterization, and properties.

The book discusses the basic of atmospheric dynamics where the curved surface of the earth and its rotation around its own axis plays very important roles. The emphasis is on basic physical concepts and the interpretation of equations and the different terms therein. Note: T&F does not sell or distribute the hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

This book is a guide that shows step by step the process of building simulation models using System Dynamics. It is written in a clear and comprehensible style that illustrates the model construction process. This book will be a useful resource to students, scholars, researchers, and teachers.

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Society is now facing challenges for which the traditional management toolbox is increasingly inadequate. Well-grounded theoretical frameworks, such as systems thinking and cybernetics, offer general level interpretation schemes and models that are capable of supporting understanding of complex phenomena and are not impacted by the passage of time. This book serves the knowledge society to address the complexity of decision making and problem solving in the 21st century with contributions from systems and cybernetics. A multi-disciplinary approach has been adopted to support diversity and to develop inter- and trans-disciplinary knowledge within the shared thematic of problem solving and decision making in the 21st century. Its conceptual thread is cyber/systemic thinking, and its realisation is supported by a wide network of scientists on the basis of a highly participative agenda. The book provides a platform of knowledge sharing and conceptual frameworks developed with multi-disciplinary perspectives, which are useful to better understand the fast changing scenario and the complexity of problem solving in the present time.

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 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 important or puzzling dynamics in firm operations, strategy, public policy, and everyday life. This updated new edition also offers a rich Learners' website with models, articles and videos, as well as a separate Instructors' website resource, with lecture slides and other course materials (see Related Websites/Extra section below). Together the book and websites deliver a powerful package of blended learning materials that:

- Introduce the system dynamics approach of modelling strategic problems in business and society
- Include industry examples and public sector applications with interactive simulators and contemporary visual modelling software
- Provide the latest state-of-the-art thinking, concepts and techniques for systems modelling

The comprehensive Learners' website features models, microworlds, journal articles and videos. Easy-to-use simulators enable readers to experience dynamic complexity in business and society. Like would-be CEOs, readers can re-design operations and then re-simulate in the quest for well-coordinated strategy and better performance. The simulators 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

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'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 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

Today's children may well become the first generation of Americans whose life expectancy will be shorter than that of their parents. The culprit, public health experts agree, is obesity and its associated health problems. Heretofore, the strategy to slow obesity's galloping pace has been driven by what the philosopher Karl Popper calls "the bucket theory of the mind." When minds are seen as containers and public understanding is viewed as being a function of how many scientific facts are known, the focus is naturally on how many scientific facts public minds contain. But the strategy has not worked. Despite all the diet books, the wide availability of reduced-calorie and reduced-fat foods, and the broad publicity about the obesity problem, America's waistline continues to expand. It will take more than food pyramid images or a new nutritional guideline to stem obesity's escalation. Albert Einstein once observed that the significant problems we face cannot be solved at the same level of thinking we were at when we created them, and that we would have to shift to a new level, a deeper level of thinking, to solve them. This book argues for, and presents, a different perspective for thinking about and addressing the obesity problem: a systems thinking perspective. While already commonplace in engineering and in business, the use of systems thinking in personal health is less widely adopted. Yet this is precisely the setting where complexities are most problematic and where the stakes are highest.

In the years following her role as the lead author of the international bestseller, *Limits to Growth*—the first book to show the consequences of unchecked growth on a finite planet—Donella Meadows remained a pioneer of environmental and social analysis until her untimely death in 2001. *Thinking in Systems*, is a concise and crucial book offering insight for problem solving on scales ranging from the personal to the global. Edited by the Sustainability Institute's Diana Wright, this essential primer brings systems thinking out of the realm of computers and equations and into the tangible world, showing readers how to develop the systems-thinking skills that thought leaders across the globe consider critical for 21st-century life. Some of the biggest problems facing the world—war, hunger, poverty, and environmental degradation—are essentially system failures. They cannot be solved by fixing one piece in isolation from the others, because even seemingly minor details have enormous power to undermine the best efforts of

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too-narrow thinking. While readers will learn the conceptual tools and methods of systems thinking, the heart of the book is grander than methodology. Donella Meadows was known as much for nurturing positive outcomes as she was for delving into the science behind global dilemmas. She reminds readers to pay attention to what is important, not just what is quantifiable, to stay humble, and to stay a learner. In a world growing ever more complicated, crowded, and interdependent, *Thinking in Systems* helps readers avoid confusion and helplessness, the first step toward finding proactive and effective solutions. Introduces a realistic approach to leading, managing, and growing your Agile team or organization. Written for current managers and developers moving into management, Appelo shares insights that are grounded in modern complex systems theory, reflecting the intense complexity of modern software development. Recognizes that today's organizations are living, networked systems; that you can't simply let them run themselves; and that management is primarily about people and relationships. Deepens your understanding of how organizations and Agile teams work, and gives you tools to solve your own problems. Identifies the most valuable elements of Agile management, and helps you improve each of them.

Principles of Systems explains the basic principles behind system behavior. It introduces the concepts of structure and dynamic behavior on which were based the author's earlier books, *Industrial Dynamics*, 1961 and *Urban Dynamics*, 1969. Due to the general nature and wide applicability of the principles discussed, the book has been accepted as a starting point for teaching dynamic systems on many multidisciplinary courses on urban, ecological, corporate and other complex social systems.

Donors, leaders of nonprofits, and public policy makers usually have the best of intentions to serve society and improve social conditions. But often their solutions fall far short of what they want to accomplish and what is truly needed. Moreover, the answers they propose and fund often produce the opposite of what they want over time. We end up with temporary shelters that increase homelessness, drug busts that increase drug-related crime, or food aid that increases starvation. How do these unintended consequences come about and how can we avoid them? By applying conventional thinking to complex social problems, we often perpetuate the very problems we try so hard to solve, but it is possible to think differently, and get different results. *Systems Thinking for Social Change* enables readers to contribute more effectively to society by helping them understand what systems thinking is and why it is so important in their work. It also gives concrete guidance on how to incorporate systems thinking in problem solving, decision making, and strategic planning without becoming a technical expert. Systems thinking leader David Stroh walks readers through techniques he has used to help people improve their efforts to end homelessness, improve public health, strengthen education, design a system for early childhood development, protect child welfare, develop rural economies, facilitate the reentry of formerly incarcerated people into society, resolve identity-based conflicts, and more. The result is a highly readable, effective guide to understanding systems and

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using that knowledge to get the results you want.

In this book leading systems dynamics articulate the latest thinking and practices on how modeling can support learning in the management environment. It includes discussions on teamwork, a number of case studies and a review of current computer simulation software packages

Health systems are fluid and their components are interdependent in complex ways. Policymakers, academics and students continually endeavour to understand how to manage health systems to improve the health of populations. However, previous scholarship has often failed to engage with the intersections and interactions of health with a multitude of other systems and determinants. This book ambitiously takes on the challenge of presenting health systems as a coherent whole, by applying a systems-thinking lens. It focuses on Malaysia as a case study to demonstrate the evolution of a health system from a low-income developing status to one of the most resilient health systems today. A rich collaboration of multidisciplinary academics working with policymakers who were at the coalface of decision-making and practitioners with decades of experience, provides a candid analysis of what worked and what did not. The result is an engaging, informative and thought-provoking intervention in the debate. This title is Open Access.

Systems Thinking, System Dynamics offers readers a comprehensive introduction to the growing field of systems thinking and dynamic modelling and its applications. The book provides a self-contained and unique blend of qualitative and quantitative tools, step-by-step methodology, numerous examples and mini-cases, as well as extensive real-life case studies. The content mix and presentation style make the otherwise technical tools of systems thinking and system dynamics accessible to a wide range of people. This book is intended as a text for students in diverse disciplines including business and management, as well as the social, environmental, health and applied sciences. It also has particular relevance for professionals from all backgrounds interested in understanding the dynamic behaviour of complex systems, change management, complex decision making, group problem solving and organisational learning. Systems thinking and system dynamics provide a scientific paradigm, a set of tools and computer technology which can help explain the forces and dynamics that underlie change and complexity in business, political, social, economic and environmental systems. Using systems thinking and system dynamics makes it possible to: examine and foresee the consequences of policy and strategic decisions implement fundamental solutions to chronic problems avoid mistakenly interpreting symptoms as causes test assumptions, hypotheses and scenarios boost staff morale and improve productivity improve the stability and performance of supply chains find long-term sustainable solutions and avoid 'fire-fighting' behaviour.

An up-to-date guide for using massive amounts of data and novel technologies to design, build, and maintain better systems engineering Systems Engineering in the Fourth Industrial Revolution: Big Data, Novel Technologies, and Modern Systems Engineering offers a guide to the recent changes in systems engineering prompted by the current challenging and innovative industrial environment called the Fourth Industrial Revolution—INDUSTRY 4.0. This book contains advanced models, innovative practices, and state-of-the-art research findings on systems engineering. The contributors, an international panel of experts on the topic, explore the key elements in

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systems engineering that have shifted towards data collection and analytics, available and used in the design and development of systems and also in the later life-cycle stages of use and retirement. The contributors address the issues in a system in which the system involves data in its operation, contrasting with earlier approaches in which data, models, and algorithms were less involved in the function of the system. The book covers a wide range of topics including five systems engineering domains: systems engineering and systems thinking; systems software and process engineering; the digital factory; reliability and maintainability modeling and analytics; and organizational aspects of systems engineering. This important resource: Presents new and advanced approaches, methodologies, and tools for designing, testing, deploying, and maintaining advanced complex systems Explores effective evidence-based risk management practices Describes an integrated approach to safety, reliability, and cyber security based on system theory Discusses entrepreneurship as a multidisciplinary system Emphasizes technical merits of systems engineering concepts by providing technical models Written for systems engineers, *Systems Engineering in the Fourth Industrial Revolution* offers an up-to-date resource that contains the best practices and most recent research on the topic of systems engineering.

Award winning author Kim Warren presents his new book: *Strategic Management Dynamics* – a complete framework in the field of Strategic Management. *Strategic Management Dynamics* builds on, and goes substantially beyond the existing strategy textbooks with its focus on understanding and managing how organisations perform over time. Based on simple but powerful underlying principles, the book both lays out a comprehensive approach to strategy analysis, design and delivery, and connects with established frameworks in the field. In *Strategic Management Dynamics* Kim Warren provides a valuable teaching resource, which can be used as a core textbook to bring strategy to life. With numerous examples from different sectors, the book is supported by a rich variety of simulation–based learning materials that are essential if strategy principles are to be experienced, rather than just discussed. For those who have already learned about strategy, this book provides an important update and extension of their knowledge. Key Features: Many simulation models to demonstrate dynamics principles in strategy as well as in marketing, human–resource management, R&D, operations management and other functions ideal for class exercises and assignments. A detailed worked example built up from chapter to chapter, illustrating the key frameworks of strategy dynamics analysis. Extensive discussion of established strategy frameworks, adapted to demonstrate implications for how organisations perform over time. Numerous academic and managerial references as useful supplements in degree courses and executive education. End–of–chapter questions and exercises, supported by detailed worksheets.

This updated and expanded second edition of *Book* provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

A guide explaining the application of systems dynamics to organizational problem solving. It

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looks at simulation models to understand issues such as fluctuating sales, market growth and stagnation, the reliability of forecasts and the rationality of business decision making.

Organizations around the world are using Lean to redesign care and improve processes in a way that achieves and sustains meaningful results for patients, staff, physicians, and health systems. *Lean Hospitals, Third Edition* explains how to use the Lean methodology and mindsets to improve safety, quality, access, and morale while reducing costs, increasing capacity, and strengthening the long-term bottom line. This updated edition of a Shingo Research Award recipient begins with an overview of Lean methods. It explains how Lean practices can help reduce various frustrations for caregivers, prevent delays and harm for patients, and improve the long-term health of your organization. The second edition of this book presented new material on identifying waste, A3 problem solving, engaging employees in continuous improvement, and strategy deployment. This third edition adds new sections on structured Lean problem solving methods (including Toyota Kata), Lean Design, and other topics. Additional examples, case studies, and explanations are also included throughout the book. Mark Graban is also the co-author, with Joe Swartz, of the book *Healthcare Kaizen: Engaging Frontline Staff in Sustainable Continuous Improvements*, which is also a Shingo Research Award recipient. Mark and Joe also wrote *The Executive's Guide to Healthcare Kaizen*.

Increased competition in the global marketplace has created enormous pressure on system implementation, particularly in the field of marketing. *Systems Thinking and Process Dynamics for Marketing Systems: Technologies and Applications for Decision Management* describes a holistic approach to monitoring, evaluating, and applying appropriate marketing strategies, and understanding the competition and its future implication on the business of a company. As complexities multiply, the scientific concept of systems thinking and analyzing process dynamics explained in this publication allows marketing firms succeed. The critical issues facing firms today are presented in a thoroughly modern context, laying the foundation for a bright future.

This book approaches economic problems from a systems thinking and feedback perspective. By introducing system dynamics methods (including qualitative and quantitative techniques) and computer simulation models, the respective contributions apply feedback analysis and dynamic simulation modeling to important local, national, and global economics issues and concerns. Topics covered include: an introduction to macro modeling using a system dynamics framework; a system dynamics translation of the Phillips machine; a re-examination of classical economic theories from a feedback perspective; analyses of important social, ecological, and resource issues; the development of a biophysical economics module for global modelling; contributions to monetary and financial economics; analyses of macroeconomic growth, income distribution and alternative theories of well-being; and a re-examination of scenario macro modeling. The contributions also examine the philosophical differences between the economics and system dynamics communities in an effort to bridge existing gaps and compare methods. Many models and other supporting information are provided as online supplementary files. Consequently, the book appeals to students and scholars in economics, as well as to practitioners and policy analysts interested in using systems thinking and system dynamics modeling to understand and improve economic systems around the world. "Clearly, there is much space for more collaboration between the advocates of post-Keynesian economics and system dynamics! More generally, I would like to recommend this book to all scholars and practitioners interested in exploring the interface and synergies between economics, system dynamics, and feedback thinking." Comments in the Foreword by Marc Lavoie, Emeritus Professor, University of Ottawa and University of Sorbonne Paris Nord

Climate change: watershed or endgame? In this compelling new book, Noam Chomsky, the

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world's leading public intellectual, and Robert Pollin, a renowned progressive economist, map out the catastrophic consequences of unchecked climate change—and present a realistic blueprint for change: the Green New Deal. Together, Chomsky and Pollin show how the forecasts for a hotter planet strain the imagination: vast stretches of the Earth will become uninhabitable, plagued by extreme weather, drought, rising seas, and crop failure. Arguing against the misplaced fear of economic disaster and unemployment arising from the transition to a green economy, they show how this bogus concern encourages climate denialism. Humanity must stop burning fossil fuels within the next thirty years and do so in a way that improves living standards and opportunities for working people. This is the goal of the Green New Deal and, as the authors make clear, it is entirely feasible. Climate change is an emergency that cannot be ignored. This book shows how it can be overcome both politically and economically.

Buddhist and Taoist Systems Thinking explores a radical new conception of business and management. It is grounded on the reconnection of humans with nature as the new competitive advantage for living organizations and entrepreneurs that aspire to regenerate the economy and drive a positive impact on the planet, in the context of the Anthropocene. Organizations today struggle in finding a balance between maximizing profits and generating value for their stakeholders, the environment and the society at large. This happens in a paradigm shift characterized by unprecedented levels of exponential change and the emergence of disruptive technologies. Adaptability, thus, is becoming the new business imperative. How can, then, entrepreneurs and organizations constantly adapt and, at the same time, design the sustainable futures they'd like? This book uniquely explores the benefits of applying Buddhist and Taoist Systems Thinking to sustainable management. Grounded in Taoist and Zen Buddhist philosophies, it offers a modern scientific perspective fundamentally based on the concepts of bio-logical adaptability and lifefulness amidst complexity and constant change. The book introduces the new concept of the Gaia organization as a living organism that consciously helps perpetuate the conditions for life on the planet. It is subject to the natural laws of transformation and the principles of oneness, emptiness, impermanence, balance, self-regulation and harmonization. Readers will find applied Eastern systems theories such as the Yin-Yang and the Five Elements operationalized through practical methodologies and tools such as T-Qualia and the Zen Business model. They are aimed at guiding Gaia organizations and entrepreneurs in leading sustainable transformations and qualifying economic growth. The book offers a vital toolkit for purpose-driven practitioners, management researchers, students, social entrepreneurs, evaluators and change-makers to reinvent, create and mindfully manage sustainable and agile organizations that drive systemic transformation. Systems Thinking and Modelling offers readers a comprehensive introduction to the growing field of systems thinking and modelling (based on the system dynamics approach) and its applications. The book provides a self-contained and unique blend of qualitative and quantitative modelling, step-by-step methodology, numerous examples and mini-cases as well as extensive real-life case studies. This presentation style makes the otherwise technical tools of systems thinking and modelling accessible to a wide range of people. The book is intended as a text for students in business, management, management and information systems, social sciences, applied sciences and engineering. It also has particular relevance for professionals interested in group and organisational learning, especially in the educational, social, medical and scientific fields. Systems thinking as a managerial and organisational discipline was popularised in the 1990s. Since then, interest has grown worldwide in 'organisational learning' and related disciplines. Systems thinking and modelling provide a paradigm, a language and a technology for understanding the dynamics that underlie change and complexity in business, polit

This book covers the broad spectrum of system dynamics methodologies for the

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modelling and simulation of complex systems: systems thinking, causal diagrams, systems structure of stock and flow diagrams, parameter estimation and tests for confidence building in system dynamics models. It includes a comprehensive review of model validation and policy design and provides a practical presentation of system dynamics modelling. It also offers numerous worked-out examples and case studies in diverse fields using STELLA and VENSIM. The system dynamics methodologies presented here can be applied to nearly all areas of research and planning, and the simulations provided make the complicated issues more easily understandable. System Dynamics: Modelling and Simulation is an essential system dynamics and systems engineering textbook for undergraduate and graduate courses. It also offers an excellent reference guide for managers in industry and policy planners who wish to use modelling and simulation to manage complex systems more effectively, as well as researchers in the fields of modelling and simulation-based systems thinking. How to use Systems Thinking to improve your business.

"More and more educators and businesspeople espouse system thinking today---this short workbook helps you do it! From two of the most gifted systems educators, this is a great tool for discovering the systems thinker in us all."---Peter M. Senge, Senior Lecturer for MIT, founder of the Society for Organizational Learning, author of the Fifth Discipline --

Community Based System Dynamics introduces researchers and practitioners to the design and application of participatory systems modeling with diverse communities. The book bridges community- based participatory research methods and rigorous computational modeling approaches to understanding communities as complex systems. It emphasizes the importance of community involvement both to understand the underlying system and to aid in implementation. Comprehensive in its scope, the volume includes topics that span the entire process of participatory systems modeling, from the initial engagement and conceptualization of community issues to model building, analysis, and project evaluation. Community Based System Dynamics is a highly valuable resource for anyone interested in helping to advance social justice using system dynamics, community involvement, and group model building, and helping to make communities a better place.

Find the optimal solutions to your problems. Gain a deep understanding of the "what, why, how, when, how much" questions of your life. Become a Systems Thinker and discover how to approach your life from a completely new perspective. What is systems thinking? Put it simply, thinking about how things interact with one another. Why should this matter to you? Because you are a system. You are a part of smaller and larger systems - your community, your country, your species. Understanding your role within these systems and how these systems affect, hinder, or aid the fulfillment of your life can lead you to better answers about yourself and the world. Information is the most precious asset these days. Evaluating that information correctly is almost priceless.

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Systems thinkers are some of the bests in collecting and assessing information, as well as creating impactful solutions in any context. The Systems Thinker will help you to implement systems thinking at your workplace, human relations, and everyday thinking habits. Boost your observation and analytical skills to find the real triggers and influencing forces behind contemporary politics, economics, health, and education changes. Systems thinking clears your vision by teaching you not only to find the differences between the elements but also the similarities. This bi-directional analyzing ability will give you a more complex worldview, deeper understanding of problems, and thus better solutions. The car stopped because its tank is empty - so it needs gas. Easy problem, easy solution, right? But could you explain just as easily why did the price of gas raise with 5% the past month? After becoming a systems thinker, you'll be able to answer that question just as easily. Change your thoughts, change your results. -What are the main elements, questions and methods of thinking in systems? -The most widely used systems archetypes, maps, models, and analytical methods. -Learn to identify and provide solutions even the most complex system problems. -Deepen your understanding about human motivation with systems thinking. The past fifty years brought so many changes in our lives. The world has become more interconnected than ever. Old rules can't explain the new world anymore. But systems thinking can. Embrace systems thinking and become a master of analytical, critical, and creative thinking.

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