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An Introduction to General Systems Thinking - Agile Advice
General systems theory Odum's contributions to these and other areas are summarized below. Odum also wrote on radiation ecology, systems ecology, unified science, and the microcosm. He was one of the first to discuss the use of ecosystems for life-support function in space travel.

Howard T. Odum - Wikipedia
Systems philosophy is a discipline aimed at constructing a new philosophy (in the sense of worldview) by using systems concepts. The discipline was first described by Ervin Laszlo in his 1972 book Introduction to Systems Philosophy: Toward a New Paradigm of Contemporary Thought. It has been described as the "reorientation of thought and world view ensuing from the introduction of "systems" as a ...

For more than twenty-five years, An Introduction to General Systems Thinking has been hailed as an innovative introduction to systems theory, with applications in computer science and beyond. Used in university courses and professional seminars all over the world, the text has proven its ability to open minds and sharpen thinking.Originally published in 1975 and reprinted more than twenty times over a quarter century-and now available for the first time from Dorset House Publishing-the text uses clear writing and basic algebraic principles to explore new approaches to projects, products, organizations, and virtually any kind of system.Scientists, engineers, organization leaders, managers, doctors, students, and thinkers of all disciplines can use this book to dispel the mental fog that clouds problem-solving. As author Gerald M. Weinberg writes in the new Preface to the Silver Anniversary Edition, "I haven't changed my conviction that most people don't think nearly as well as they could had they been taught some principles of thinking."Now an award-winning author of nearly forty books spanning the entire software development life cycle-including The Psychology of Computer Programming: Silver Anniversary Edition and Exploring Requirements (with Donald C. Gause)-Weinberg had already acquired extensive experience as a programmer, manager, university professor, and consultant when this book was originally published.With helpful illustrations, numerous end-of-chapter exercises, and an appendix on a mathematical notation used in problem-solving, An Introduction to General Systems Thinking may be your most powerful tool in working with problems, systems, and solutions.

Makes the most generally applicable insights from general systems theorists and from disciplinarians available to the widest audience possible.

Bring a Deeper Understanding of Systems to Software and System Development Originally titled On the Design of Stable Systems in its first, hardcover incarnation, in 1979, General Principles of Systems Design does not just focus on computer systems, but systems of all kinds--human, natural, and technological. In a highly readable, original presentation that embraces everything from depletion curves to the Feedback Principle (the method of controlling a system by reinserting it into the results of its past performance), the Weinbergs explore the subtle art and science of regulating systems, projects, and people in the most efficient and logical manner possible. The authors draw on their respective backgrounds in technology and social science to offer fresh insights and translate them into a language that anyone can understand. In the course of this presentation, the Weinbergs introduce a host of laws and theorems derived from the best thinking of systems thinkers over the past century. In addition to being a reference book for professional and lay people alike, General Principles of Systems Design is suitable as an undergraduate text in the humanities, social, natural, and engineering sciences. It is unique in its approach, highly readable, and offers practical ways of solving problems.

This book demonstrates the theoretical value and practical significance of systems science and its logic of thinking by presenting a rigorously developed foundation—a tool for intuitive reasoning, which is supported by both theory and empirical evidence, as well as practical applications in business decision making. Following a foundation of general systems theory, the book presents an applied method to intuitively learn system-sciences fundamentals. The third and final part examines applications of the yoyo model and the theoretical results developed earlier within the context of problems facing business decision makers by organically combining methods of traditional science, the first dimension of science, with those of systems science, the second dimension, as argued by George Klir in the 1990s. This text would benefit graduate students, researchers, or practitioners in the areas of mathematics, systems science or engineering, economics, and business decision science.

1. 1. INTRODUCTION We start this book with Theme A (see Figure P. I in the Preface), which aims to develop an essential and fundamental understanding of systems science. So, what is systems science? When asked to explain what systems science is all about, many systems scientists are confronted with a rather daunting task. The discipline tends to be presented and understood in a fragmented way and very few people hold an overview understanding of the subject matter, while also having sufficient in-depth competence in many and broad-ranging subject areas where the ideas are used. Indeed, it was precisely this difficulty that identified the need for a comprehensive well-documented account such as is presented here in Dealing with Complexity.

Though general systems theory is currently the prevailing paradigm in family therapy and social work, there is no accessible text that treats its basic concepts. This book fills the gap by presenting the central ideas of general systems theory in clear and simple language, with a focus on the social sciences.

The classic book on a major modern theory

Systems Theories for Psychotherapists explores three key theories that underpin many of the models of psychotherapy: general systems theory, natural systems theory, and language systems theory. The book presents the aesthetics (how to see and understand what is happening) and the pragmatics (what to do in the therapy room) behind each theory. It also explores how therapists can successfully conceptualize the problems that clients bring to therapy, offering a range of contemporary examples to show how each theory can be applied to practice. Starting with an introduction to systems theories, the book then delves into cybernetics, interactional systems, natural systems, constructivist theory, and social construction theory. Each chapter uses a distinctive case example to help clinicians to better understand and apply the theories to their own therapeutic setting. Woven throughout the book are three helpful learning tools: "Applying Your Knowledge," "Key Figure," and "Questions for Reflection," providing the reader with the opportunity to critically engage with each concept, consider how their own world view and preconceptions can inform their work with clients, and challenging them to apply prominent systems theories to their own practice. Systems Theories for Psychotherapists is a clear and valuable text for undergraduate and graduate students in mental health programs, including counseling, marriage and family therapy, social work and clinical psychology, as well as for all practicing clinicians.

Niklas Luhmann ranks as one of the most important sociologists and social theorists of the twentieth century. Through his many books he developed a highly original form of systems theory that has been hugely influential in a wide variety of disciplines. In Introduction to Systems Theory, Luhmann explains the key ideas of general and sociological systems theory and supplies a wealth of examples to illustrate his approach. The book offers a wide range of concepts and theorems that can be applied to politics and the economy, religion and science, art and education, organization and the family. Moreover, Luhmann's ideas address important contemporary issues in such diverse fields as cognitive science, ecology, and the study of social movements. This book provides all the necessary resources for readers to work through the foundations of systems theory – no other work by Luhmann is as clear and accessible as this. There is also much here that will be of great interest to more advanced scholars and practitioners in sociology and the social sciences.