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~~Spiral: A complexity and networks approach to sustainability~~

KISS, an acronym for keep it simple, stupid, is a design principle noted by the U.S. Navy in 1960. The KISS principle states that most systems work best if they are kept simple rather than made complicated; therefore, simplicity should be a key goal in design, and unnecessary complexity should be avoided. The phrase has been associated with aircraft engineer Kelly Johnson.

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Business sustainability and sustainable development are of great importance in modern-day socio-economic study. Despite this, the impact of recent contributions from systems and complexity sciences in addressing these issues has not yet filtered down into effective practice. This book argues that there is a need for urgency in the application of analytical tools which embody the principles of complexity management in sustainability research, in particular in the context of the global climate change. The approach presented is based on the concept of clusters of whole systems coming together through collaboration, in order to create larger wholes capable of dealing with the issues facing our socio-economic environmental

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systems. In this updated second edition, the authors further clarify the viability and sustainability (V&S) approach, and the criteria and framework needed for sustainable governance. It includes a more detailed perspective on the implications of the V&S approach to businesses and networks towards changes in structure, strategy and processes, inspired by specific case studies. Key additions include a criteria for designing more viable and sustainable self-governed organizations, the methodologies and tools to design and implement self-transformations towards sustainability, and how these tools support sustainability management individually and globally, for businesses and society.

Revised edition of the authors' A complexity approach to sustainability, c2011.

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"Business sustainability and sustainable development are of great importance in modern-day socio-economic study. Despite this, the impact of recent contributions from systems and complexity sciences in addressing these issues has not yet filtered down into effective practice. This book argues that there is a need for urgency in the application of analytical tools which embody the principles of complexity management in sustainability research, in particular in the context of the global climate change. The approach presented is based on the concept of clusters of whole systems coming together through collaboration, in order to create larger wholes capable of dealing with the issues facing our socio-economic environmental systems. In this updated second edition, the authors further clarify the viability and sustainability (V&S) approach, and the criteria and

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Complexity theory illuminates the many interactions between natural and social systems, providing a better understanding of the general principles that can help solve some of today's most pressing environmental issues. Complexity theory was developed from key

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ideas in economics, physics, biology, and the social sciences and contributes to important new concepts for approaching issues of environmental sustainability such as resilience, scaling, and networks. Complexity Theory for a Sustainable Future is a hands-on treatment of this exciting new body of work and its applications, bridging the gap between theoretical and applied perspectives in the management of complex adaptive systems. Focusing primarily on natural resource management and community-based conservation, the book features contributions by leading scholars in the field, many of whom are among the leaders of the Resilience Alliance. Theoreticians will find a valuable synthesis of new ideas on resilience, sustainability, asymmetries, information processing, scaling, and networks. Managers and policymakers will benefit from the application of these ideas to practical approaches and

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empirical studies linked to social-ecological systems. Chapters present new twists on such existing approaches as scenario planning, scaling analyses, and adaptive management, and the book concludes with recommendations on how to manage natural resources, how to involve stakeholders in the dynamics of a system, and how to explain the difficult topic of scale. A vital reference for an emerging discipline, this volume provides a clearer understanding of the conditions required for systems self-organization, since the capacity of any system to self-organize is crucial for its sustainability over time.

Focusing on the essential uncertainty of participating in evolving events as they happen, this book considers the creative possibilities of such participation from a complexity perspective.

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The book on complex systems, sustainability, and innovation explores a broad set of ideas and presents some of the state-of-the-art research in this field concisely in six chapters. In a complex system, it is difficult to know exactly how the individual components contribute to an observed behavior and the extent of each component's contributions. It is the interactions of the individual components that determine the emergent functionalities. This makes it difficult to understand and predict the behavior of complex systems and hence the effects of any innovations in this field. This necessitates for the emergence of a new age of innovations with the main focus on user orientation and sustainability. This book explores some of the complex systems and their dependence on the environment to provide a long-term

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perspective, aiding innovations and supporting a sustainable society. The intended audience of this book will mainly consist of researchers, research students, and practitioners in the field of complex systems and sustainability.

Drawing on the complexity sciences and personal narrative accounts of experience from practitioners based in the UK, Germany, Denmark and North America, this book examines conventional leadership development methodologies with a view to identifying what is useful and what is not. It proffers an alternative perspective on leadership and organisation for business schools, consultancies and corporate training functions to adopt in their development of leaders. Leadership Development: A Complexity Approach is essential reading for advanced students and researchers

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of leadership development, leadership studies, human resource management and organisational development. It will also be of interest to management educators and practising managers whose experience of, or aspirations for, working life are not represented in mainstream academic texts and popular management literature.

Is sustainable development a workable solution for today's environmental problems? Is it scientifically defensible? Best known for applying ecological theory to the engineering problems of everyday life, the late scholar James J. Kay was a leader in the study of social and ecological complexity and the thermodynamics of ecosystems. Drawing from his immensely important work, as well as the research of his students and colleagues, *The Ecosystem Approach* is a guide to the aspects of complex systems theories

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relevant to social-ecological management. Advancing a methodology that is rooted in good theory and practice, this book features case studies conducted in the Arctic and Africa, in Canada and Kathmandu, and in the Peruvian Amazon, Chesapeake Bay, and Chennai, India. Applying a systems approach to concrete environmental issues, this volume is geared toward scientists, engineers, and sustainable development scholars and practitioners who are attuned to the ideas of the Resilience Alliance-an international group of scientists who take a more holistic view of ecology and environmental problem-solving. Chapters cover the origins and rebirth of the ecosystem approach in ecology; the bridging of science and values; the challenge of governance in complex systems; systemic and participatory approaches to management; and the place for cultural diversity in the quest for

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global sustainability.

Managing Complexity: Earth Systems and Strategies for the Future introduces and explores systems and complexity in relation to near-synchronous world and environmental problems. These relate to but are not limited to water, biological diversity, worldwide climate change, trade and conflict, global migration and the quest for sustainable development. Complemented by discussion of the new era of the Anthropocene, its many manifestations, and Earth system properties such as planetary boundaries and tipping points this book offers practical suggestions for how a sustainable future for humanity can be realised. Specifically discussed in Managing Complexity: Earth Systems and Strategies for the Future are innovation, education and capacity building, application of the

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natural and social sciences and new paths towards sustainability based on industrial development and engineering, as well as in diplomacy and foreign aid. The book's conclusions discuss the ambitious yet vital reforms the authors propose as routes to a sustainable existence. This book will be of great interest to students and scholars of sustainability, sustainable development and complexity theory.

Development processes need to engage effectively with complex system dynamics. Navigating Complexity in International Development offers detail case studies of interventions which articulate clear methodological underpinnings and draws out the implications both for development, practise and practitioners.

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