

# Self-organization and Dissipative Structures

*Applications in the Physical and Social Sciences*

Edited by William C. Schieve and Peter M. Allen

# Self Organization And Dissipative Structures Applications In The Physical And Social Sciences

**A. Albert**



## **Self Organization And Dissipative Structures Applications In The Physical And Social Sciences:**

**Self-Organization and Dissipative Structures** William C. Schieve, Peter M. Allen, 1982-04-01 The contributions to this volume attempt to apply different aspects of Ilya Prigogine's Nobel prize winning work on dissipative structures to nonchemical systems as a way of linking the natural and social sciences They address both the mathematical methods for description of pattern and form as they evolve in biological systems and the mechanisms of the evolution of social systems containing many variables responding to subjective qualitative stimuli The mathematical modeling of human systems especially those far from thermodynamic equilibrium must involve both chance and determinism aspects both quantitative and qualitative Such systems and the physical states of matter which they resemble are referred to as self organized or dissipative structures in order to emphasize their dependence on the flows of matter and energy to and from their surroundings Some such systems evolve along lines of inevitable change but there occur instances of choice or bifurcation when chance is an important factor in the qualitative modification of structure Such systems suggest that evolution is not a system moving toward equilibrium but instead is one which most aptly evokes the patterns of the living world The volume is truly interdisciplinary and should appeal to researchers in both the physical and social sciences Based on a workshop on dissipative structures held in 1978 at the University of Texas contributors include Prigogine A G Wilson Andre de Palma D Kahn J L Deneubourgh J W Stucki Richard N Adams and Erick Jantsch The papers presented include Allen Self Organization in the Urban System Robert Herman Remarks on Traffic Flow Theories and the Characterization of Traffic in Cities W H Zurek and Schieve Nucleation Paradigm Survival Threshold in Population Dynamics De Palma et al Boolean Equations with Temporal Delays Nicholas Georgescu Roegin Energy Analysis and Technology Assessment Magoroh Maruyama Four Different Causal Meta types in Biological and Social Sciences and Jantsch From Self Reference to Self Transcendence The Evolution of Self Organization Dynamics

**Self-Organization and Dissipative Structures** William C. Schieve, *New Approaches to Organizational Communication* Branislav Kovacic, Branislav Kovač, 1994-01-01 New Approaches to Organizational Communication brings together three major conceptual developments First it sheds new light on standards used to evaluate processes and practices of organizational communication Second individual chapters delineate new vital mechanisms of organizational communications Third the book outlines the practical consequences of these new mechanisms of organizational communication

**Chaos and Society** A. Albert, 1995 This publication reflects on the discussion on using chaos theory for the study of society It explores the interface between chaos theory and the social sciences A broad variety of fields including Sociology Anthropology Economics Political Science Management Philosophy and Cognitive Sciences is represented in the book The leading themes are Conceptual and Methodological Issues Social Connectionism and the Connectionist Mind Social Institutions and Public Policy and Social Simulations The book includes the following topics the relevance of the complexity chaos paradigm for analyzing social systems the usefulness of nonlinear dynamics for studying

the formation and sustainability of social groups the comparison between spontaneous social orders and spontaneous biological natural orders the building of Artificial Societies and the contribution of the chaos paradigm to a better understanding and formulation of public policies      *Systemic Choices* Gregory A. Daneke, 2010-05-25 The revolution in social scientific theory and practice known as nonlinear dynamics chaos or complexity derived from recent advances in the physical biological and cognitive sciences is now culminating with the widespread use of tools and concepts such as praxis fuzzy logic artificial intelligence and parallel processing By tracing a number of conceptual threads from mathematics economics cybernetics and various other applied systems theoretics this book offers a historical framework for how these ideas are transforming the social sciences Daneke goes on to address a variety of persistent philosophical issues surrounding this paradigm shift ranging from the nature of human rationality to free will Finally he describes this shift as a path for revitalizing the social sciences just when they will be most needed to address the human condition in the new millennium *Systemic Choices* describes how praxis and other complex systems tools can be applied to a number of pressing policy and management problems For example simulations can be used to grow a number of robust hybrid industrial and or technological strategies between cooperation and competition Likewise elements of international agreements could be tested for sustainability under adaptively evolving institutional designs Other concrete applications include strategic management total quality management and operational analyses This exploration of a wide range of technical tools and concepts will interest economists political scientists sociologists psychologists and those in the management disciplines such as strategy organizational behavior finance and operations Gregory A Daneke is Professor of Technology Management Arizona State University and of Human and Organization Development The Fielding Institute      **Humans and the Environment**

Matthew I. J. Davies, Freda Nkire M'Mbogori, 2013-06-27 The environment has always been a central concept for archaeologists and although it has been conceived in many ways its role in archaeological explanation has fluctuated from a mere backdrop to human action to a primary factor in the understanding of society and social change Archaeology also has a unique position as its base of interest places it temporally between geological and ethnographic timescales spatially between global and local dimensions and epistemologically between empirical studies of environmental change and more heuristic studies of cultural practice Drawing on data from across the globe at a variety of temporal and spatial scales this volume resituates the way in which archaeologists use and apply the concept of the environment Each chapter critically explores the potential for archaeological data and practice to contribute to modern environmental issues including problems of climate change and environmental degradation Overall the volume covers four basic themes archaeological approaches to the way in which both scientists and locals conceive of the relationship between humans and their environment applied environmental archaeology the archaeology of disaster and new interdisciplinary directions The volume will be of interest to students and established archaeologists as well as practitioners from a range of applied disciplines      **Social Emergence** R. Keith

Sawyer,2005-10-27 Can we understand important social issues by studying individual personalities and decisions Or are societies somehow more than the people in them Sociologists have long believed that psychology can t explain what happens when people work together in complex modern societies In contrast most psychologists and economists believe that if we have an accurate theory of how individuals make choices and act on them we can explain pretty much everything about social life Social Emergence takes a new approach to these longstanding questions Sawyer argues that societies are complex dynamical systems and that the best way to resolve these debates is by developing the concept of emergence focusing on multiple levels of analysis individuals interactions and groups and with a dynamic focus on how social group phenomena emerge from communication processes among individual members This book makes a unique contribution not only to complex systems research but also to social theory      **Complexity and Organizational Reality** Ralph D.

Stacey,2009-12-18 Approaches to leadership and management are still dominated by prescriptions usually claimed as scientific for top executives to choose the future direction of their organization The global financial recession and the collapse of investment capitalism surely not planned by anyone make it quite clear that top executives are simply not able to choose future directions Despite this current management literature mostly continues to avoid the obvious management s inability to predict or control what will happen in the future The key question now must be how we are to think about management if we take the uncertainty of organizational life seriously Ralph Stacey has turned to the sciences of uncertainty and complexity to develop an understanding of leadership and management as the ordinary politics of daily organizational life In presenting organizations as a series of complex responsive processes Stacey s new book helps us to see organizational reality for what it actually is human beings engaged in many many local conversational interactions and power relations in which they negotiate their ideologically based choices Organizational continuity and change emerge unpredictably rather than as a result of any overall plan This is a radically different picture from the one painted by most of the management literature which explains organizational continuity and change as the realization of the global plans and choices of a few powerful executives within an organization Providing a new foundation for understanding complexity and management this important book is required reading for managers and leaders wanting to understand the reality of complexity in organizations including those engaged in postgraduate studies in leadership organizational behaviour and change management      **Nonlinear Models for Archaeology and Anthropology** William W. Baden,2016-12-05 The dominant

social theory used by archaeologists has tended to focus on either small scale agency or large scale cultural patterns and processes of change The authors of this volume argue that archaeologists should use nonlinear models to more accurately model the connections between scales of analysis and show how micro scale variation can lead to macro scale cultural change This work examines the applications of nonlinear systems models within archaeology and evaluates the range of approaches currently encompassed within Complexity Theory      **Thinking in Complexity** Klaus Mainzer,2013-03-09 The

first edition of this book published in 1994 began with the statement that the new science of complexity would characterize the scientific development of the 21st century. In the first decade of this century this prediction has been confirmed by overwhelming new empirical results and theoretical insights from physical and biological sciences, cognitive and computer sciences, and social and economic sciences. Complexity and nonlinearity are still prominent features in the evolution of matter, mind, and human society. Thus the science of complexity still aims at explanations for the emergence of order in nature and mind and in the economy and society by common principles. But a new engineering view has focused the exploration of complexity. On the one hand we need new computational instruments to analyze complex data and recognize future trends. On the other hand the principles of complex dynamics are increasingly becoming the blueprints of gene bio and computer technology. Life and computer sciences are growing into a new kind of complex engineering, changing the basic conditions of human life and society. Nonlinear dynamics are implemented in nonlinear computer chips of high speed and miniaturized size which are not only distributed in our technical equipment and environment but also in our body and brain.

**Culture and the Development of Children's Action** Jaan Valsiner, 1997-06-23 In this deeply probing intellectually challenging work Dr Jaan Valsiner lays the groundwork for a dynamic new cultural historical approach to developmental psychology. He begins by deconstructing traditional developmental theory, exposing the conceptual confusion and epistemological blind spots that he believes continue to undermine the scientific validity of its methodologies. He describes the ways in which embedded cultural biases shape interventional goals and influence both the direction research takes and the ways in which research data are interpreted. And he suggests ways in which researchers and clinicians can become more aware of and transcend those biases. Dr Valsiner then develops a hierarchical systemic model that portrays development as an open ended dialectical process. Central to Valsiner's approach is the premise that since each child is unique as are his or her life conditions, deviations in function or the rate of development from a prescribed norm are just as likely to be constructive adaptations to changing environmental pressures as symptoms of psychological disorder. Drawing upon sources as varied as linguistic philosophy, structural anthropology, thermodynamics, and systems theory, as well as the work of many of the leading figures in twentieth century developmental theory, Valsiner argues convincingly for an approach to developmental psychology mature enough to recognize the difference between healthy variability and dysfunction. In later chapters the focus shifts from development in the abstract to the everyday challenges encountered by the developing child. Case histories illustrate the subtle interplay of cultural, physiological, and psychological factors in shaping childhood behavior. Called an intellectual tour de force by the *Bulletin of the Menninger Clinic*, *Culture and the Development of Children's Action* is important reading for developmental psychologists, child psychologists, and all child clinicians. Of course no science progresses in a linear fashion. It moves interdependently with the society in which it is embedded, making use of the narrative forms in describing itself to its insiders and outsiders. The rhetoric of scientists about their science is therefore necessarily inconsistent. Sciences are both

social institutions within a society and social organizations that attempt to build universal knowledge. It is a complicated task for psychology to be both knowledge constructing and self reflexive at the same time. Nevertheless, it is the latter kind of reflexivity that guides the actual construction of knowledge. Jaan Valsiner. This book is a fascinating and important work that challenges much of contemporary developmental psychology. The Second Edition has changed in a number of respects and much new material has been added but at root Valsiner grapples with the question how shall we understand development. He continues to struggle also with what he describes rather vividly as the epistemological windmills of psychology. His challenge is summed up succinctly in two lines from a poem by T S Eliot: Where is the wisdom we have lost in knowledge? Where is the knowledge we have lost in information? Foreword by Kevin Connolly. Ancient Middle Niger Roderick J.

McIntosh, 2005-09-29 Survey of the emergence of the ancient urban civilization of Middle Niger. *Generative Emergence* Benyamin Lichtenstein, 2014-06-20 How do organizations become created? Entrepreneurship scholars have debated this question for decades but only recently have they been able to gain insights into the non linear dynamics that lead to organizational emergence through the use of the complexity sciences. Written for social science researchers, *Generative Emergence* summarizes these literatures including the first comprehensive review of each of the 15 complexity science disciplines. In doing so, the book makes a bold proposal for a discipline of Emergence and explores one of its proposed fields, namely Generative Emergence. The book begins with a detailed summary of its underlying science: dissipative structures theory and rigorously maps the processes of order creation discovered by that science to identify a 5 phase model of order creation in entrepreneurial ventures. The second half of the book presents the findings from an experimental study that tested the model in four fast growth ventures through a year long week by week longitudinal analysis of their processes based on over 750 interviews and 1000 hours of on site observation. These data combined with reports from over a dozen other studies confirm the dynamics of the 5 phase model in multiple contexts. By way of conclusion, the book explores how the model of Generative Emergence could be applied to enact emergence within and across organizations. **Models, Measurement,**

**and Metrology Extending the SI** William P. Fisher, Jr., Leslie Pendrill, 2024-09-23 The book focuses on the extension of quality assured measurement and metrology into psychological and social domains. This is not only feasible and achievable but also a pressing concern. Significant progress in developing a common conceptual system for measurement across the sciences has been made in recent collaborations between metrologists and psychometricians as reported in the chapters of this book. Modeling estimation and interpretation of objectively reproducible unit quantities that support both general comparability and adaptation to unique local circumstances are demonstrated in fields as diverse as artificial intelligence, justice and beauty perception. The Emergence of Leadership Douglas Griffin, 2003-09-02 The second half of the twentieth century witnessed the emergence of the most complex global organizations ever known. Taking a complexity theory perspective, this book explores the key factor that sustains them: leadership. The book examines how leadership is currently

understood primarily from a systems based perspective as an attribute of the individual the leadership role being to articulate values missions and visions and then persuade others to adhere to them It argues for a new view of ethics as co created through identity and difference representing the end of business ethics as we know it today Areas considered include risk and conflict spontaneity and motivation In the past we have focused on the choices of individual leaders In today s highly complex organizations we are now coming to understand the nature of leadership as self organizing and as such closely linked to ethics This means that we can no longer understand ethics simply as centered rational choice in planning and action

Non-equilibrium Thermodynamics and the Production of Entropy Axel Kleidon, Ralph D. Lorenz, 2004-11-18 The present volume studies the application of concepts from non equilibrium thermodynamics to a variety of research topics Emphasis is on the Maximum Entropy Production MEP principle and applications to Geosphere Biosphere couplings Written by leading researchers from a wide range of backgrounds the book presents a first coherent account of an emerging field at the interface of thermodynamics geophysics and life sciences

**Complexity and Management** Ralph D. Stacey, 2002-01-04 Complexity theory is generating increasing interest amongst strategic thinkers This fascinating book covers issues such as predictability creativity and relationships as it considers how complexity and its central principles of emergence and self organization are being used to understand organizations The book introduces the variety of views put forward by different writers on complexity and management outlines and critiques the way that complexity theory is frequently interpreted purely in the context of systems thinking draws a new perspective on using complexity sciences to understand organizational stability and change by focusing on the emergence of novelty and creativity in the course of everyday processes calls for a radical re examination of management thinking Timely and controversial Complexity and Management is essential reading for anyone interested in strategy systems thinking organization and management theory and organizational change

**The Evolution of Institutional Economics** Geoffrey Martin Hodgson, 2004 This exciting new book from Geoffrey Hodgson is eagerly awaited by social scientists from many different backgrounds This book charts the rise fall and renewal of institutional economics in the critical analytical and readable style that Hodgson s fans have come to know and love and that a new generation of readers will surely come to appreciate

**Learning from Comparing: new directions in comparative education research** Robin Alexander, Marilyn Osborn, David Phillips, 2000-01-01 Learning from Comparing is a major two volume study which reassesses the contribution of comparative educational research and theory to our understanding of contemporary educational problems and to our capacity to solve them At a time when educational research is under attack on the grounds of bias and irrelevance and under pressure to address only those questions which are acceptable politically as good a definition of bias as any this is a serious attempt to bridge the worlds of research policy and practice The editors have put together a collection in terms of both perspective and nationality which ensures contrasting viewpoints on each topic

Computer Engineering: Concepts, Methodologies, Tools and Applications Management



Association, Information Resources, 2011-12-31 This reference is a broad multi volume collection of the best recent works published under the umbrella of computer engineering including perspectives on the fundamental aspects tools and technologies methods and design applications managerial impact social behavioral perspectives critical issues and emerging trends in the field Provided by publisher

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