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Complexity, Cognition and the City

With a Foreword by
Hermann Haken



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Complexity Cognition And The City Understanding Complex Systems

Hermann Haken, Juval Portugali



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Handbook on Entropy, Complexity and Spatial Dynamics Reggiani, Aura, Schintler, Laurie A., Czamanski, Danny, Patuelli, Roberto, 2021-12-14 This ground breaking Handbook presents a state of the art exploration of entropy complexity and spatial dynamics from fundamental theoretical empirical and methodological perspectives It considers how foundational theories can contribute to new advances including novel modeling and empirical insights at different sectoral spatial and temporal scales

We Are Not Users Eswaran Subrahmanian, Yoram Reich, Sruthi Krishnan, 2024-10-29 A call to reclaim and rethink the field of designing as a liberal art where diverse voices come together to shape the material world We live in a material world of designed artifacts both digital and analog We think of ourselves as users the platforms devices or objects provide a service that we can use But is this really the case We Are Not Users argues that people cannot be reduced

to the entity called user we are not homogenous but diverse That buzz of dissonance that we hear reflects the difficulty of condensing our diversity into one size fits all This book proposes that a new understanding of design could resolve that dissonance and issues a call to reclaim and rethink the field of designing as a liberal art where diverse voices come together to shape the material world The authors envision designing as a dialogue simultaneously about the individual and the social an act enriched by diversity of both disciplines and perspectives The book presents the building blocks of a language that can conceive designing in all its richness with relevance for both theory and practice It introduces a theoretical model terminology examples and a framework for bringing together the social cultural and political aspects of designing It will be essential reading for design theorists and for designers in areas ranging from architecture to software design and policymaking

Risk Analysis VIII C. A. Brebbia, 2012-09-01 Comprised of the papers presented at the eighth and latest International Conference Simulation in Risk Analysis and Hazard Mitigation this book covers a topic of increasing importance Scientific knowledge is essential to our better understanding of risk Natural hazards such as floods earthquakes landslides fires and others have always affected human societies Man made hazards however played a comparatively small role until the industrial revolution when the risk of catastrophic events started to increase due to the rapid growth of new technologies and the urbanisation of populations The interaction of natural and anthropogenic risks adds to the complexity of the problem Due to advances in computational methods and the ability to model systems more precisely we can now quantify hazards simulate their effects and calculate risk with greater accuracy enabling us to manage risk much more effectively These developments are particularly relevant to environmental issues where substantial risks are involved Governments and their publics now place a high priority on effective risk management and the mitigation of possible hazards Covering topics such as Estimation of Risk Risk Management Vulnerability Geomorphologic Risk Network Systems Climate Change Risks Hazard Prevention Management and Control Security and Public Safety Transportation Safety Safe Ship Operations Early Warning Systems Food Safety Risk Perception Natural Hazards Technological Risk the book will be of interest to planners emergency managers environmentalists engineers policy makers and other government officials researchers and academics involved in the field of risk and disaster management

Synergetic Cities: Information, Steady State and Phase Transition Hermann Haken, Juval Portugali, 2021-02-12 The book offers a novel approach to the study of the complex dynamics of cities It is based on 1 Synergetics as a science of cooperation and selforganization 2 information theory including semantic and pragmatic aspects and optimization principles 3 a theory of steady state maintenance and of 4 phase transition i e qualitative changes of structure or behavior From this novel theoretical vantage point the book addresses particularly three issues that stand at the core of current discourse on cities Urban Scaling Smart Cities and City Planning An important consequence of the 21st century as the age of cities is that the study of cities currently attracts scientists from a variety of disciplines ranging from physics mathematics and computer science through urban studies architecture planning and human geography to economics

psychology sociology public administration and more The book is thus likely to attract scholars researchers and students of these research domains of complexity theories of cities as well as of general complexity theory In addition it is directed also to practitioners of urbanism city planning and urban design **Handbook on Cities and Complexity** Portugali,

Juval,2021-09-16 Written by some of the founders of complexity theory and complexity theories of cities CTC this Handbook expertly guides the reader through over forty years of intertwined developments the emergence of general theories of complex self organized systems and the consequent emergence of CTC **Human-Centred Design** Hee Sun

Choi,2025-10-22 This book discusses how people experience and inhabit high density and high rise urban environments drawing on current literature about the psychological physical and environmental health impacts It brings a novel exploration of the evolving definitions of space and new ways of socializing within vertical urban settings coupled with a cutting edge approach focused on applying neuroscience principles to urban design International case studies from Singapore Seoul and Hong Kong convey useful lessons for the urban design and morphology of high density cities

Compendium of Urban Complexity Diego Rybski,2025-07-18 This book brings together key findings insights and theories at the intersection of two disciplines city science and complex systems It features a curated collection of chapters contributed by emerging scholars conducting cutting edge research in complexity science interdisciplinary physics and quantitative geography The compendium is tailored to a thematically diverse audience spanning quantitative fields such as statistical and mathematical physics as well as socially focused domains such as geography and urban planning By integrating novel methods and insights from physics economics and geography this book aims at an interdisciplinary spectrum of graduate students and academic researchers studying cities as complex systems *Seeing History: Public History in China* LI

Na,2023-11-06 When public history was imported from the United States to China around the turn of the twenty first century it was introduced as a sub field within history and has developed along that path ever since Professional historians in China even some forward looking ones see public history as merely presenting a change in the patterns of participation in history making This book offers a sharply different view It contends essentially that public history represents more than a research domain within history or within any existing discipline nor does it fit into any established narratives but rather a fundamental change of the entire process of history making in China In this process the public is prosuming history Public history makes obsolete the old structure for building and acquiring historical knowledge it challenges the old assumptions supersedes the rigid academic hierarchy and stirs the imaginations of the multitudes With an assemblage of case studies this work makes a case for a system view of public history making or public history ing and launches a concept complex public history i e public history ing as complex adaptive systems

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