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Six Degrees: The Science of a Connected Age Duncan J. Watts, 2004-02-17 The pioneering young scientist whose work on the structure of small worlds has triggered an avalanche of interest in networks In this remarkable book Duncan Watts one of the principal architects of network theory sets out to explain the innovative research that he and other scientists are spearheading to create a blueprint of our connected planet Whether they bind computers economies or terrorist organizations networks are everywhere in the real world yet only recently have scientists attempted to explain their mysterious workings From epidemics of disease to outbreaks of market madness from people searching for information to firms surviving crisis and change from the structure of personal relationships to the technological and social choices of entire societies Watts weaves together a network of discoveries across an array of disciplines to tell the story of an explosive new field of knowledge the people who are building it and his own peculiar path in forging this new science

The New Science of Cities Michael Batty, 2017-07-28 A proposal for a new way to understand cities and their design not as artifacts but as systems composed of flows and networks In *The New Science of Cities* Michael Batty suggests that to understand cities we must view them not simply as places in space but as systems of networks and flows To understand space he argues we must understand flows and to understand flows we must understand networks the relations between objects that compose the system of the city Drawing on the complexity sciences social physics urban economics transportation theory regional science and urban geography and building on his own previous work Batty introduces theories and methods that reveal the deep structure of how cities function Batty presents the foundations of a new science of cities defining flows and their networks and introducing tools that can be applied to understanding different aspects of city structure He examines the size of cities their internal order the transport routes that define them and the locations that fix these networks He introduces methods of simulation that range from simple stochastic models to bottom up evolutionary models to aggregate land use transportation models Then using largely the same tools he presents design and

decision making models that predict interactions and flows in future cities These networks emphasize a notion with relevance for future research and planning that design of cities is collective action

Network Science National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Network Science for Future Army Applications, 2006-01-15 The military is currently attempting to develop itself into a force capable of networkcentric operations While this effort has highlighted the military's dependence on interacting networks it has also shown that there is a huge gap between what we need to know about networks and our fundamental knowledge about network behavior This gap makes the military vision of NCO problematic To help address this problem the Army asked the NRC to find out whether identifying and funding a new field of network science could help close this gap This report presents an examination of networks and the military an analysis of the promise content and challenges of network science and an assessment of approaches to creating value from network science

Networks of the Brain Olaf Sporns, 2016-02-12 An integrative overview of network approaches to neuroscience explores the origins of brain complexity and the link between brain structure and function Over the last decade the study of complex networks has expanded across diverse scientific fields Increasingly science is concerned with the structure behavior and evolution of complex systems ranging from cells to ecosystems In *Networks of the Brain* Olaf Sporns describes how the integrative nature of brain function can be illuminated from a complex network perspective Highlighting the many emerging points of contact between neuroscience and network science the book serves to introduce network theory to neuroscientists and neuroscience to those working on theoretical network models Sporns emphasizes how networks connect levels of organization in the brain and how they link structure to function offering an informal and nonmathematical treatment of the subject *Networks of the Brain* provides a synthesis of the sciences of complex networks and the brain that will be an essential foundation for future research

Floor Rules Gregor Dallas, 2024-10-29 A compelling account of how markets really govern themselves and why they often baffle and outrage outsiders One of the reasons many people believe financial markets are lawless and irrational and rigged is that they follow two sets of rules The official rules set by law or by the heads of the exchanges exist alongside the unofficial rules or floor rules which are the ones that actually govern Break the official rules and you may be fined or jailed break the floor rules and you'll suffer worse you will be ostracized Regulations vary across markets but the floor rules are remarkably consistent This book offering compelling stories of market disturbances in which insider rules played a key role shows readers without excessive moralizing how markets really govern themselves It is a study of the norms customs values and operating modes of the insiders at the center of the financial markets that trade money stocks bonds futures and other financial derivatives The core insiders who rule trading markets are a relatively small group who exert disproportionate influence on financial systems Mark W Geiger examines the historical roots of the culture of financial markets describes the role insiders play in today's high finance and suggests where this peculiar ingrown culture is heading in an era of constant technological change

Dynamics On and Of Complex Networks Niloy Ganguly, Andreas Deutsch, Animesh Mukherjee, 2009-06-20 This self contained book systematically explores the statistical dynamics on and of complex networks having relevance across a large number of scientific disciplines The theories related to complex networks are increasingly being used by researchers for their usefulness in harnessing the most difficult problems of a particular discipline The book is a collection of surveys and cutting edge research contributions exploring the interdisciplinary relationship of dynamics on and of complex networks Topics covered include complex networks found in nature genetic pathways ecological networks linguistic systems and social systems as well as man made systems such as the World Wide Web and peer to peer networks The contributed chapters in this volume are intended to promote cross fertilization in several research areas and will be valuable to newcomers in the field experienced researchers practitioners and graduate students interested in systems exhibiting an underlying complex network structure in disciplines such as computer science biology statistical physics nonlinear dynamics linguistics and the social sciences

Understanding Social Networks Charles Kadushin, 2012-01-04 Despite the swift spread of social network concepts and their applications and the rising use of network analysis in social science there is no book that provides a thorough general introduction for the serious reader Understanding Social Networks fills that gap by explaining the big ideas that underlie the social network phenomenon Written for those interested in this fast moving area but who are not mathematically inclined it covers fundamental concepts then discusses networks and their core themes in increasing order of complexity Kadushin demystifies the concepts theories and findings developed by network experts He selects material that serves as basic building blocks and examples of best practices that will allow the reader to understand and evaluate new developments as they emerge Understanding Social Networks will be useful to social scientists who encounter social network research in their reading students new to the network field as well as managers marketers and others who constantly encounter social networks in their work

Maritime Networks in the Ancient Mediterranean World Justin Leidwanger, Carl Knappett, 2018-11-22 This book uses network ideas to explore how the sea connected communities across the ancient Mediterranean We look at the complexity of cultural interaction and the diverse modes of maritime mobility through which people and objects moved It will be of interest to Mediterranean specialists ancient historians and maritime archaeologists

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functional analysis monotone operators requires convex analysis

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web the heat equation is a certain partial differential equation in mathematics and physics it has the form $\frac{1}{\sqrt{4\pi t}} e^{-\frac{|x|^2}{4t}}$ where $x \in \mathbb{R}^n$ denotes a general point of the domain or right side of the equation written in laplacian $\frac{\partial u}{\partial t} = \Delta u$ when study thermal optic effect in nonlinear