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THE SCIENCE OF
A CONNECTED AGE

WITH A NEW CHAPTER

DUNCAN J. WATTS

Six Degrees The New Science Of Networks

Duncan J. Watts



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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

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 *Network Science, Nonlinear Science and Infrastructure Systems* Terry L.

Friesz, 2007-06-10 This book is written by leading scholars in Network Science Nonlinear Science and Infrastructure Systems expressly to develop common theoretical underpinnings for better solutions to modern infrastructural problems The book is dedicated to the formulation of infrastructural tools that will better solve problems from transportation networks to telecommunications Internet supply chains and more **Maritime Networks in the Ancient Mediterranean World**

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from the 19th century until today The book critically inquires into the literary cultural philosophical and scientific rhetoric values and ideological underpinnings that have given rise to the network concept Literature and culture play a major role in the ways in which networks have been imagined and how they have evolved as conceptual models This study regards networks as historically emergent and culturally constructed formations closely tied with the development of knowledge technologies in the process of modernization as well as with an increasingly critical awareness of network technologies and infrastructures While the rise of the network in scientific philosophical political and sociological discourses has received wide attention this book contributes an important cultural and historical perspective to network theory by demonstrating how US American literature and culture have been key sites for thinking in and about networks in the past two centuries *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

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