

CAMBRIDGE

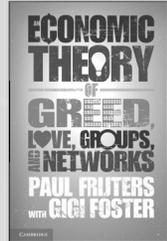
E-books Available for most titles!

Network Science Titles from Cambridge University Press

An Economic Theory of Greed, Love, Groups, and Networks

PAUL FRIJTERS With GIGI FOSTER

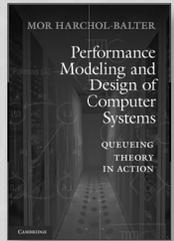
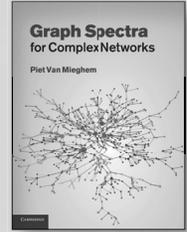
\$99.00: Hb: 978-1-107-02627-8: 445 pp. \$34.99: Pb: 978-1-107-67894-1



Graph Spectra for Complex Networks

PIET VAN MIEGHEM

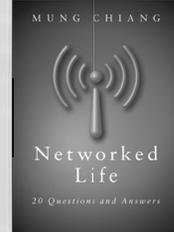
\$49.99: Pb: 978-1-107-41147-0: 364 pp.



Performance Modeling and Design of Computer Systems Queuing Theory in Action

MOR HARCHOL-BALTER

\$75.00: Hb: 978-1-107-02750-3: 576 pp.



Networked Life 20 Questions and Answers

MUNG CHIANG

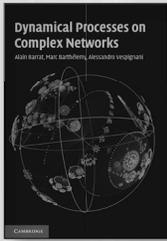
\$45.00: Hb: 978-1-107-02494-6: 503 pp.

Now in Paperback!

Dynamical Processes on Complex Networks

ALAIN BARRAT, MARC BARTHÉLEMY, and ALESSANDRO VESPIGNANI

\$60.00: Pb: 978-1-107-62625-6: 361 pp.

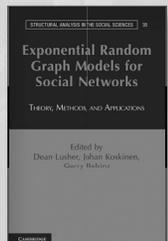
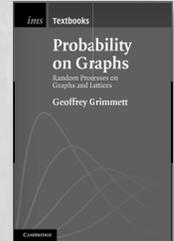


Probability on Graphs Random Processes on Graphs and Lattices

GEOFFREY GRIMMETT

Institute of Mathematical Statistics Textbooks

\$116.00: Hb: 978-0-521-19798-4: 260 pp. \$38.99: Pb: 978-0-521-14735-4



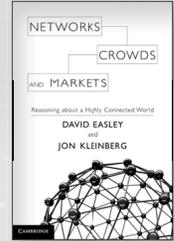
Exponential Random Graph Models for Social Networks Theory, Methods, and Applications

Theory, Methods, and Applications

Edited by DEAN LUSHER, JOHAN KOSKINEN, and GARRY ROBINS

Structural Analysis in the Social Sciences

\$99.00: Hb: 978-0-521-19356-6: 352 pp. \$34.99: Pb: 978-0-521-14138-3



Networks, Crowds, and Markets Reasoning About a Highly Connected World

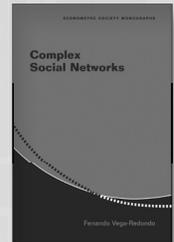
DAVID EASLEY and JON KLEINBERG

\$50.00: Hb: 978-0-521-19533-1: 744 pp.

Complex Social Networks

FERNANDO VEGA-REDONDO Econometric Society Monographs

\$111.00: Hb: 978-0-521-85740-6: 310 pp. \$39.99: Pb: 978-0-521-67409-6



Prices subject to change.

www.cambridge.org/us/computerscience

800.872.7423

@cambUP_maths



CAMBRIDGE UNIVERSITY PRESS

NETWORK SCIENCE

Volume 1

Issue 1

CONTENTS

Editorial

What is network science?

ULRIK BRANDES, GARRY ROBINS, ANN MCCRANIE AND STANLEY WASSERMAN 1

Articles

Friendship networks and social status

BRIAN BALL AND M.E.J. NEWMAN 16

A dyadic reciprocity index for repeated interaction networks

CHENG WANG, OMAR LIZARDO, DAVID HACHEN, ANTHONY STRATHMAN,
ZOLTÁN TOROCZKAI AND NITESH V. CHAWLA 31

Diffusion and contagion in networks with heterogeneous agents
and homophily

MATTHEW O. JACKSON AND DUNIA LÓPEZ-PINTADO 49

Dynamic elicited priors for updating covert networks

JEFF GILL AND JOHN R. FREEMAN 68

Gravity's Rainbow: A dynamic latent space model for the world
trade network

MICHAEL D. WARD, JOHN S. AHLQUIST AND ARTURAS ROZENAS 95

End Note

Portrait of Political Party Polarization

JAMES MOODY AND PETER J. MUCHA 119

EDITORS

Lada Adamic, Information Science, University of Michigan, USA

Ulrik Brandes, Computer Science and Mathematics, University of Konstanz, Germany

Noshir Contractor, Communication, Engineering, and Management, Northwestern University, USA

Sanjeev Goyal, Economics, University of Cambridge, UK

Garry Robins, Psychology and Political Science, University of Melbourne, Australia

Thomas Valente, Public Health and Medicine, University of Southern California, USA

Alessandro Vespignani, Physics, Northeastern University, USA

Stanley Wasserman (Coordinating Editor), Statistics and Sociology, Indiana University, USA

Cambridge Journals Online

For further information about this journal please
go to the journal web site at:

journals.cambridge.org/nws

CAMBRIDGE
UNIVERSITY PRESS