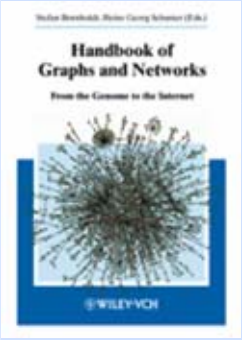
html links are live on these pages

http://www.wiley-vch.de/publish/en/books/newTitles200211/3-527-40336-1/?sID=d05b



Bornholdt, Stefan / Schuster, Heinz Georg (eds.)

Handbook of Graphs and Networks

From the Genome to the Internet

Table of Contents
http://www.pro-physik.de/Phy/pdfs/Bornholdt_Inhaltsverz.pdf

Edition - November 2002
99.- Euro / 146.- SFR
2002. XVI, 401 Pages, Hardcover
ISBN 3-527-40336-1 - Wiley-VCH, Berlin

Short description

Defining the field of complex interacting networks in its infancy, this book presents the dynamics of networks and their structure as a key concept across several disciplines.
The contributions present common underlying principles of network dynamics and their theoretical descriptions, and are thus of interest to specialists as well as to non-specialized readers looking for an introduction to this new and exciting field.

From the contents:
Themes in biological networks: regulatory networks in the genome, neural networks, ecological networks and food webs.
Further themes: Internet and the World-Wide Web, peer-to-peer networks, computer viruses, traffic networks.
Methods: scale-free networks, small-world networks, generalized random graphs.

From the contents

Bela Bollobas and Oliver Riordan:
1. Mathematical Results on Scale-free Random Graphs
no pdf

Mark Newman:
2. Random Graphs as Models of Networks
http://www.santafe.edu/sfi/publications/Working-Papers/02-02-005.pdf

Albert-Lázló Barabási:
3. Emergence of Scaling in Complex Networks
http://www.pro-physik.de/Phy/pdfs/Bornholdt_K3_069_084.pdf

R. Cohen, S. Havlin, and D. ben-Avraham:

4. Structural Properties of Scale-Free Networks
http://citeseer.nj.nec.com/cohen02structural.html

Romualdo Pastor-Satorras and Alessandro Vespignani:
5. Epidemics and Immunization in Scale-free Networks
http://arxiv.org/abs/cond-mat/0205260
http://eclectic.ss.uci.edu/~drwhite/ISCOM/0205260.pdf

Ralf J. Sommer:
6. Cells and Genes as Networks in Nematode Development and Evolution
no pdf

Ricard V. Solé and Romualdo Pastor-Satorras:
7. Complex Networks in Genomics and Proteomics
http://www.santafe.edu/sfi/publications/Working-Papers/02-06-026.pdf

Sergei Maslov, Kim Sneppen and Uri Alon:
8. Correlation Profiles and Motifs in Complex Networks
see: http://cmth.phy.bnl.gov/~maslov/protein_networks_science.pdf
and: http://cmth.phy.bnl.gov/~maslov/matlab.htm for software

Wolfgang Kinzel:
9. Theory of Interacting Neural Networks
http://arxiv.org/abs/cond-mat/0204054
http://eclectic.ss.uci.edu/~drwhite/ISCOM/0204054.pdf

B. Drossel and A. J. McKane:
10. Modelling Food Webs
http://theory.ph.man.ac.uk/~ajm/webreview.pdf
http://theory.ph.man.ac.uk/~ajm/foodwebs.html

Kai Nagel:
11. Traffic Networks
no pdf

Alan Kirman:
12. Economic Networks
no pdf

Lada A. Adamic, Rajan M. Lukose and Bernardo A. Huberman:
13. Local Search in Unstructured Networks
http://arxiv.org/abs/cond-mat/0204181

http://eclectic.ss.uci.edu/~drwhite/ISCOM/0204181.pdf

S.N. Dorogovtsev and J.F.F. Mendes:
14. Accelerated Growth of Networks
http://arxiv.org/abs/cond-mat/0204102
http://eclectic.ss.uci.edu/~drwhite/ISCOM/0204102.pdf

Gérard Weisbuch and Sorin Solomon:
15. Social Percolators and Self Organized Criticality
http://www.soc.surrey.ac.uk/simsoc5/talks-page/talk11.htm

Sanjay Jain and Sandeep Krishna:
16. Graph Theory and the Evolution of Autocatalytic Networks
http://arxiv.org/abs/nlin.AO/0210070
http://eclectic.ss.uci.edu/~drwhite/ISCOM/0210070.pdf

Related:
Navigation in small world networks, a scale-free continuum model
http://www.cs.vu.nl/~rmeester/preprints/sw.pdf

The diameter of a scale-free random graph, Béla Bollobás and Oliver Riordan, to appear in Combinatorica.
http://www.dpmms.cam.ac.uk/~omr10/diam/diam.pdf

Coupling scale-free and classical random graphs, Béla Bollobás and Oliver Riordan, submitted to Internet Mathematics.
http://www.dpmms.cam.ac.uk/~omr10/coupling/coupling.pdf