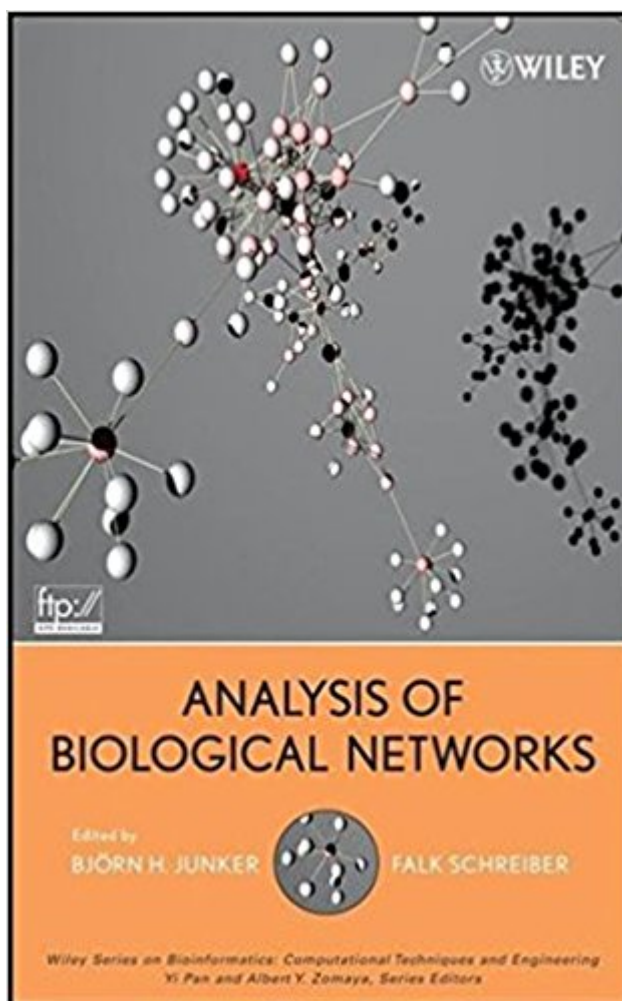


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# Analysis Of Biological Networks



## Synopsis

An introduction to biological networks and methods for their analysis *Analysis of Biological Networks* is the first book of its kind to provide readers with a comprehensive introduction to the structural analysis of biological networks at the interface of biology and computer science. The book begins with a brief overview of biological networks and graph theory/graph algorithms and goes on to explore: global network properties, network centralities, network motifs, network clustering, Petri nets, signal transduction and gene regulation networks, protein interaction networks, metabolic networks, phylogenetic networks, ecological networks, and correlation networks. *Analysis of Biological Networks* is a self-contained introduction to this important research topic, assumes no expert knowledge in computer science or biology, and is accessible to professionals and students alike. Each chapter concludes with a summary of main points and with exercises for readers to test their understanding of the material presented. Additionally, an FTP site with links to author-provided data for the book is available for deeper study. This book is suitable as a resource for researchers in computer science, biology, bioinformatics, advanced biochemistry, and the life sciences, and also serves as an ideal reference text for graduate-level courses in bioinformatics and biological research.

## Book Information

Hardcover: 368 pages

Publisher: Wiley-Interscience; 1 edition (March 31, 2008)

Language: English

ISBN-10: 0470041447

ISBN-13: 978-0470041444

Product Dimensions: 6.5 x 0.6 x 9.4 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 2.7 out of 5 stars 3 customer reviews

Best Sellers Rank: #2,635,827 in Books (See Top 100 in Books) #85 in [Books > Science & Math > Mathematics > Applied > Biomathematics](#) #1221 in [Books > Computers & Technology > Programming > Algorithms](#) #2572 in [Books > Textbooks > Computer Science > Networking](#)

## Customer Reviews

"This book is a wonderful text for biological network analysis. It comprehensively presents a numbers of analysis tools and their applications for understanding real biological problems. This book is a must-read for entry-level students and researchers, and a complete reference source for

experts." (Computing Reviews, March 6, 2009) "This book is an excellent introduction to the analysis of biological networks. The exercise provided after each chapter make the book suitable for self-study, and the extensive references provide the interested reader with good sources for further reading." (Computing Reviews, August 21, 2008)

An introduction to biological networks and methods for their analysis *Analysis of Biological Networks* is the first book of its kind to provide readers with a comprehensive introduction to the structural analysis of biological networks at the interface of biology and computer science. The book begins with a brief overview of biological networks and graph theory/graph algorithms and goes on to explore: global network properties, network centralities, network motifs, network clustering, Petri nets, signal transduction and gene regulation networks, protein interaction networks, metabolic networks, phylogenetic networks, ecological networks, and correlation networks. *Analysis of Biological Networks* is a self-contained introduction to this important research topic, assumes no expert knowledge in computer science or biology, and is accessible to professionals and students alike. Each chapter concludes with a summary of main points and with exercises for readers to test their understanding of the material presented. Additionally, an FTP site with links to author-provided data for the book is available for deeper study. This book is suitable as a resource for researchers in computer science, biology, bioinformatics, advanced biochemistry, and the life sciences, and also serves as an ideal reference text for graduate-level courses in bioinformatics and biological research.

it was too concise to be useful in my class. Might be useful in yours. Preparing to sell it this fall.

This book offers a good digest of network theory and associated biological applications. I have no complaints about its content, but the Kindle edition is very poorly done. The typesetting of mathematical expressions in core chapters is mangled almost more often than not. Operators are missing and replaced with dots, as are portions of algorithm descriptions. This content is clearly critical to the presentation, especially in a condensed survey text like this one.

This book is a great resource for any computer scientist who wants to work on topics related to biological networks. Although I am not biologist or bioinformatician, I believe it is a great book for life science researchers and students who would like to employ computational techniques to solve their problems related to networks in biology. It provides a nice balance covering the topics of biology

and computer science.

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