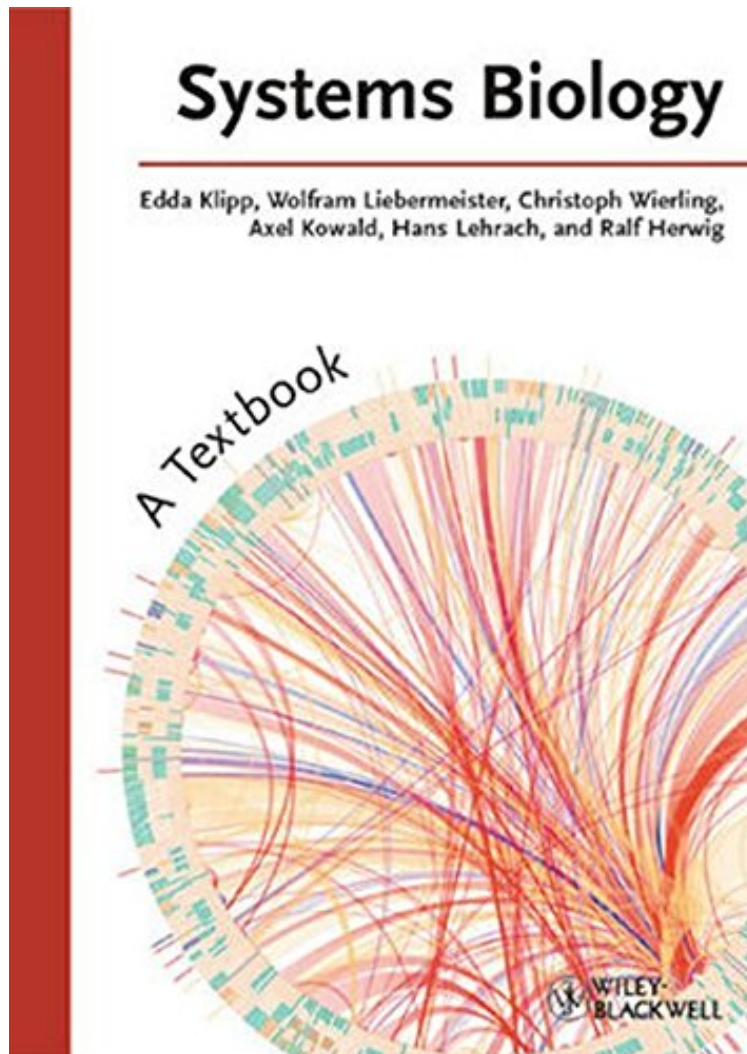



Systems Biology

Edda Klipp, Wolfram Liebermeister, Christoph Wierling, Axel Kowald, Hans Lehrach, Ralf Herwig
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Edda Klipp, Wolfram Liebermeister, Christoph Wierling, Axel Kowald, Hans Lehrach, Ralf Herwig : Systems Biology before purchasing it in order to gage whether or not it would be worth my time, and all praised Systems Biology:

0 of 0 people found the following review helpful. Edda Klipp is one of the best researchers in the subject I found the book very ...By Ruben AgreloEdda Klipp is one of the best researchers in the subjectI found the book very good Moreover it covers all aspects of systems biologyHowever if you are starting to read about this subject may be you may needa more simple book12 of 14 people found the following review helpful. Brilliantly Done BookBy Dr. Terrence McGartyThere are a great number of systems biology texts out there and most are poor attempts to speak to the topic. Their weakness is always that the authors are new to the systems and math parts and they try and just plug

together some facts and charts. This book is an exception. It is a heavy weight but exceptionally well written given it came from a team. It does a good job on reactions and reaction rates and develops a simple matrix model which is useful. There are times when the pedagogy could be improved but that is a nit. For example the rate equations deal with concentrations of the constituents and for someone approaching this for the first time there is bit an aside comment. For those seeing this as an added text there is no confusion. There are many real world models worked through so that the reader can see how to apply this. The level of the mathematics is just right, it is detailed to the point of having reliance on the result but not to the extreme that you lose the biology. The writing style is superb and one can sit down and use it as a good read, no struggling on where they got something from. I would have liked to see them work through some cancer pathway models, PTEN and c-MYC, but that is a wish list item. Overall, this is one of the best if not the best I have seen. There is the book by System Modeling in Cellular Biology: From Concepts to Nuts and Bolts (Bradford Books) which is also exceptionally good, but the Szallasi book shows the signs of many minds. This book is a single presentation, often difficult to do. 0 of 3 people found the following review helpful. Easy read but missing a few steps. By Megs I love this book because it's an easy read but it's missing some steps in the middle so I tend to get lost a lot.

This advanced textbook is tailored to the needs of introductory course in Systems Biology. It has a companion website (WWW.WILEY-VCH.DE/HOME/SYSTEMS BIOLOGY) with solutions to questions in the book and several additional extensive working models. The book is related to the very successful previous title 'Systems Biology in Practice' and has incorporated the feedback and suggestions from many lecturers worldwide. The book addresses biologists as well as engineers and computer scientists. The interdisciplinary team of acclaimed authors worked closely together to ensure a comprehensive coverage with no overlaps in a homogenous and compelling style.

This clear text is a useful starting point for anyone aspiring to solve a biological question using systems biology approaches. (Oxford University Biochemical Society, 2010) From the Back Cover Systems biology is a highly topical discipline at the intersection of biochemistry, cell biology, computer science, and systems engineering. This coursebook in systems biology is tailored to the needs of advanced students of biology, engineering, and computer science. It has a companion website with solutions to questions in the book, additional chapters, and computer implementations of systems biology models. The book is a follow-up of the very successful Systems Biology in Practice and incorporates the feedback and suggestions of many lecturers worldwide. The interdisciplinary team of acclaimed authors have worked closely together to ensure a comprehensive coverage of the topic in a fluent and compelling style. Further material is available on www.wiley-vch.de/home/systemsbiology

About the Author Edda Klipp (born 1965) studied theoretical biophysics at the Humboldt University Berlin. A member of the Yeast Systems Biology Network, her research interests include mathematical modeling of cellular systems, signal transduction, systems biology, and text mining. Wolfram Liebermeister (born 1972) studied physics in Tübingen and Hamburg and obtained a PhD of theoretical biophysics at the Humboldt University of Berlin. In his works on complex biological systems, he points out functional aspects like variability, information, and optimality. Christoph Wierling (born 1973) studied biology at the University of Münster and recently obtained a PhD degree on the modeling and simulation of biological systems. Axel Kowald (born 1963) holds a PhD in mathematical biology from the National Institute for Medical Research, London. His current research interests focus on the mathematical modeling of processes involved in the biology of aging and systems biology. Hans Lehrach (born 1946) is a director at the Max Planck Institute for Molecular Genetics in Berlin and was spokesman for the German Human Genome Initiative. His research interests focus on functional genomics, technology development and systems biology. Ralf Herwig (born 1967) studied mathematics and physics at the Free University Berlin and completed a PhD on statistical clustering methods. He has specialized in integrative bioinformatics projects covering genomics, proteomics and systems biology.