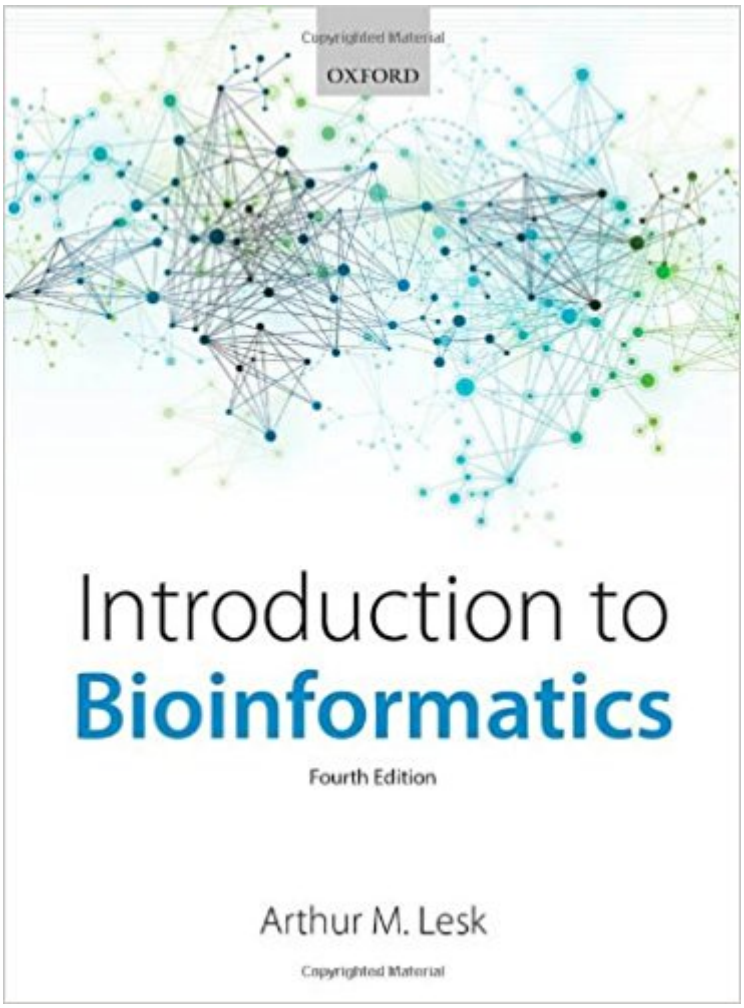
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Introduction To Bioinformatics



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Synopsis

Fully revised and updated, the fourth edition of Introduction to Bioinformatics shows how bioinformatics can be used as a powerful set of tools for retrieving and analyzing this biological data, and how bioinformatics can be applied to a wide range of disciplines such as molecular biology, medicine, biotechnology, forensic science, and anthropology. This new edition contains two new chapters, with significantly increased coverage of metabolic pathways, and gene expression and regulation. Written for students without a detailed prior knowledge of programming, this book is the perfect introduction to the field of bioinformatics, providing friendly guidance and advice on how to use various methods and techniques. Additionally, frequent examples, self-test questions, problems, and exercises are incorporated throughout the text to encourage self-directed learning.

Book Information

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Customer Reviews

`Review from previous edition An essential textbook for undergraduate students who are interested in a comprehensive introduction to the multidisciplinary field of bioinformatics.' Jean-Christophe Nebel, Kingston University`I'm impressed with the breadth AND depth achieved in what is a reasonably compact text. There are lots of quite innovative features which support the pedagogical delivery of the material.' Richard Badge, University of Leicester`A very good introductory textbook in bioinformatics. It is well-structured and nicely laid out. There are numerous examples and problems attached to each chapter, including the novel Weblems.' Karen Page, University College London

Arthur M. Lesk is Professor of Biochemistry and Molecular Biology at Pennsylvania State University.

I am a researcher with background in applied mathematics and molecular biology working in areas that involves moderate to heavy use of bioinformatics. I have several comments:1. This is a good INTRODUCTION to bioinformatics. Probably a motivated high school student can understand most of the text.The language is straight-forward, clear, concise, and at points even humorous. Most important sections are covered.2. It is not a quantitative approach, nor does it give details into the usage of data mining, statistics, or machine learning algorithms. The only programming aid this book might have to offer is some instruction on PERL. It does not talk about R, MATLAB, or any other packages. This book does not go into details about how any of the experimental procedures work, such as gene sequencing, X-ray diffraction, NMR, etc.3. The recommended readings after each chapter are HIGHLY recommended. They are the go-to if you want to supplement the sometimes superficial text.Finally, the book is probably extremely helpful to someone just entering the field, an interesting and informative read for someone with some experience, but a waste of time for anybody with more experience.

Excellent introduction to bioinformatics. I am using it in a class of advanced high school students. Clear and well-written, accessible to anyone with some general biology and genetics background. The online resources are very good and a great study aid/supplement.

A MOOC based on this book would be nice!

Book was bought for the department. Came in good condition.

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