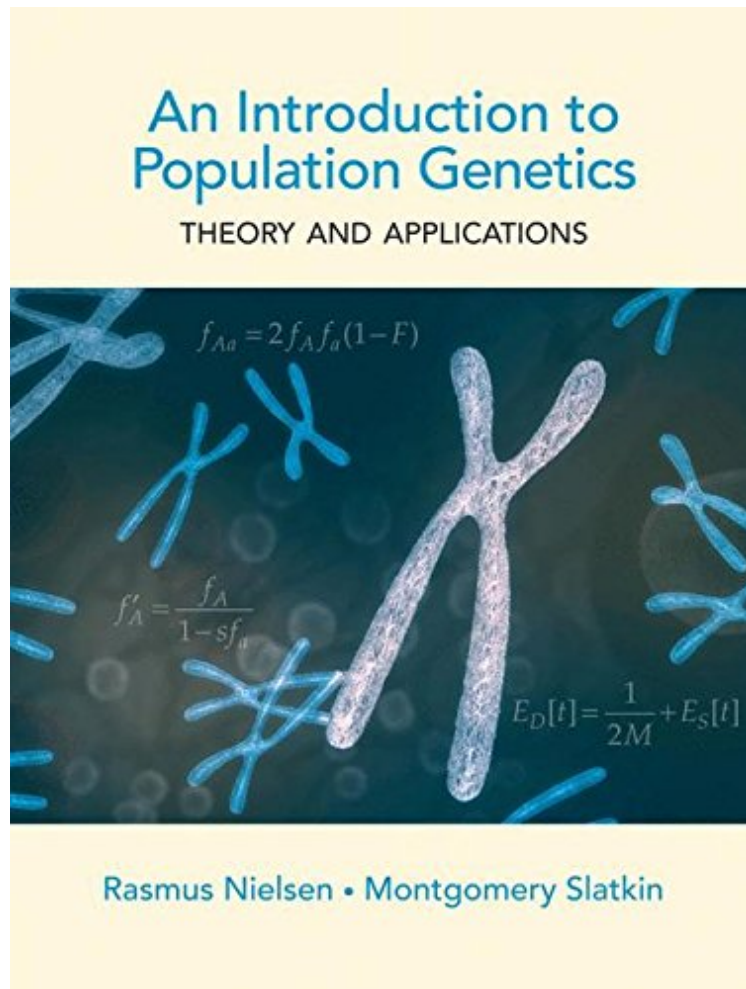


(Read free) An Introduction to Population Genetics: Theory and Applications

An Introduction to Population Genetics: Theory and Applications

Rasmus Nielsen, Montgomery Slatkin
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Rasmus Nielsen, Montgomery Slatkin : An Introduction to Population Genetics: Theory and Applications

before purchasing it in order to gauge whether or not it would be worth my time, and all praised An Introduction to Population Genetics: Theory and Applications:

3 of 3 people found the following review helpful. Nothing special
By Polychaos This book is all right. There are a number of errors (we were given extra credit in my class for finding them), at least 2-4 per chapter. They also have adopted some slightly confusing notation by departing from the standard Hardy-Weinberg $p^2 + 2pq + q^2 = 1$ notation, instead opting for $F(\text{sub})A$, which just results in wordier (albeit fancier looking) equations. Chapter order is also quite strange. Selection is not presented until halfway through the book. I learned more by reading "A primer of population biology" by Wilson and Bossert, that book was written in the '70s!
0 of 0 people found the following review helpful. Pass on this textbook!
By Paul Marban This is a very poorly written introductory text to population genetics.

The text often makes it more confusing than necessary and I found myself using other resources to learn the materials rather than deal with the terrible writing and exclamations. The only good thing going for this book in my opinion are the graphics and figures. 1 of 1 people found the following review helpful. Some mistakes but a pretty good informative text
By Angelica
Several mistakes in the answer key/ practice questions but the way the information is relayed is pretty clear and helpful.

An Introduction to Population Genetics is intended as a text for a one-semester biology course in population genetics at the undergraduate or graduate levels. The goal of the book is to introduce both classical population genetics theory developed in terms of allele and haplotype frequencies and modern population genetics theory developed in terms of coalescent theory. Numerous applications of theory to problems that arise in the study of human and other populations are presented. Appendices provide the mathematical background necessary to understand the basic theory.

"This book is the first textbook I have encountered that takes the coalescent as an integrated, normal aspect of modern population genetics. For anyone wanting to teach this subject, or indeed learn it, Nielsen and Slatkin's recent book presents a refreshingly modern synthesis." --Julia Sigwart, *Systematic Biology*
"Overall, An Introduction to Population Genetics: Theory and Applications will be a welcome addition to the bookshelf of any aspiring biology student. This is an ideal textbook for a short semester or quarter-long population genetics course, and I wholeheartedly recommend it. Furthermore, practicing geneticists and bioinformaticians would benefit from the taste of population genetics that this volume offers." --Joseph Lachance, *The Quarterly of Biology*
About the Author
Rasmus Nielsen is a Professor in the Departments of Integrative Biology and Statistics at the University of California at Berkeley. He first came to Berkeley to pursue a Ph.D. in Population Genetics (with advisor, now coauthor, Montgomery Slatkin), having already earned a Masters in Biology from the University of Copenhagen. Dr. Nielsen was awarded both a Fullbright Fellowship and a Sloan Research Fellowship, and received the Ole Rmer Award and the ElitForsk Award. He edited the book *Statistical Methods in Molecular Evolution (Statistics for Biology and Health)* (2005). Dr. Nielsen and lab members work on statistical and computational methods and their applications in population genetics, medical genetics, molecular ecology, and molecular evolution.
Montgomery Slatkin is a Professor in the Department of Integrative Biology at the University of California at Berkeley. He earned a B.S. in Mathematics from MIT, and a Ph.D. in Applied Biomathematics from Harvard University (with George F. Carrier and William H. Bossert). Dr. Slatkin is editor of *Evolution: Essays in Honour of John Maynard Smith* (with P. J. Greenwood and P. H. Harvey) and *Modern Developments in Theoretical Population Genetics* (with M. Veuille, Oxford University Press). He was elected a member of the American Academy of Arts and Science (1997), awarded a Guggenheim Fellowship (1999-2000), and received the Sewall Wright Award of the American Society of Naturalists (2000). His research focus is population genetics and genomics, particularly of humans and archaic human relatives.