



Population Genetics

By Matthew Hamilton



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This book aims to make population genetics approachable, logical and easily understood. To achieve these goals, the book's design emphasizes well explained introductions to key principles and predictions. These are augmented with case studies as well as illustrations along with introductions to classical hypotheses and debates.

Pedagogical features in the text include:

- Interact boxes that guide readers step-by-step through computer simulations using public domain software.
- Math boxes that fully explain mathematical derivations.
- Methods boxes that give insight into the use of actual genetic data.
- Numerous Problem boxes are integrated into the text to reinforce concepts as they are encountered.
- Dedicated website at www.wiley.com/go/hamiltongenetics

This text also offers a highly accessible introduction to coalescent theory, the major conceptual advance in population genetics of the last two decades.

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Editorial Review

Review

“To achieve these goals, the book design emphasizes a well explained introductions to key principles and predictions. These are augmented with case studies as well as illustrations along with introductions to classical hypotheses and debates.” (*Zentralblatt MATH*, 2012)

“The most catching aspect of Hamilton’s book is its extremely well thought-out structure and pedagogical concept. All sections are well motivated in the respective introduction and all chapters have reviews at the end. A large number of problems have been interspersed throughout the text for students to work on, and the solutions are provided at the end of each chapter. A very interesting and novel feature is the use of so-called ‘interact boxes’, which are essentially links to interactive learning and simulation software available on the internet.” (*Human Genetics*, December 2009)

"Hamilton's volume would be the best choice for someone seeking a thorough grounding in the subject."
(*The Quarterly Review of Biology*, April 2010)

"Both population biologists and upper-level biology students will appreciate the relatively clear explanations of exceptionally difficult material." (*CHOICE*, November 2009)

From the Back Cover

The key to understanding population genetics is gaining familiarity with a set of traditional conceptual approaches along with classical hypotheses and debates. Armed with this background, many empirical studies will be readily understood because the basic hypotheses they address are understood from first principles. To achieve this goal, this book is designed to contain mostly conceptual material that is augmented with case studies as illustrations. Several outstanding pedagogical features including methods boxes and exercises to assist students in conducting simulations using public domain software will be integrated into the text.

About the Author

Matthew B. Hamilton teaches population genetics, evolutionary processes, and similar undergraduate and graduate courses at Georgetown University. He conducts research on the processes that shape genetic variation within species using molecular genetic markers as well as predictive mathematical models.

Users Review

From reader reviews:

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