

Evolutionary Theory



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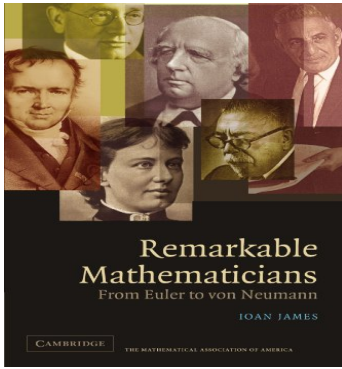
Evolutionary Theory

Evolutionary Theory is for graduate students, researchers, and advanced undergraduates who want an understanding of the mathematical and biological reasoning that underlies evolutionary theory. The book covers all of the major theoretical approaches used to study the mechanics of evolution, including classical one- and two-locus models, diffusion theory, coalescent theory, quantitative genetics, and game theory. There are also chapters on theoretical approaches to the evolution of development and on multilevel selection theory. Each subject is illustrated by focusing on those results that have the greatest power to influence the way that we think about how evolution works. These major result



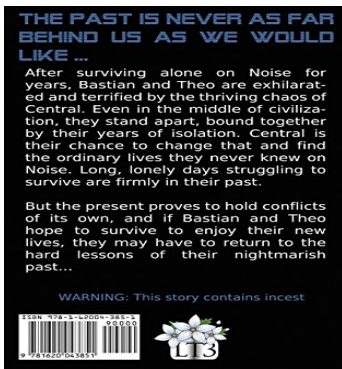
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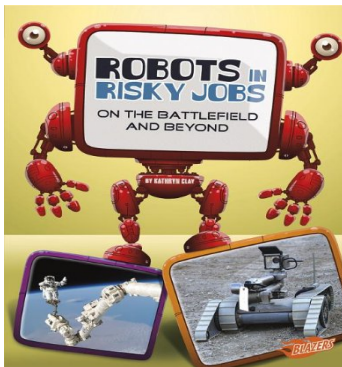
Remarkable Mathematicians: From Euler to von Neumann (Spectrum Series)

Ioan James introduces and profiles sixty mathematicians from the era when mathematics was freed from its classical origins to develop into its modern form. The subjects, all born between 1700 and 1910, come from a wide range of countries, and all made important contributions to mathematics, through



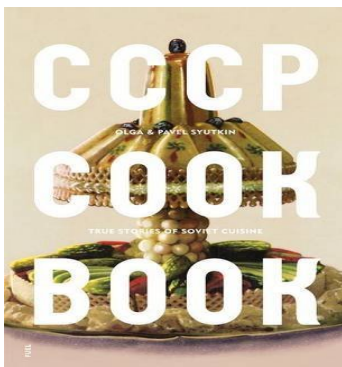
Klaxon at the Core (Psionic Frequency) (Volume 2)

After surviving alone on Noise for years, Bastian and Theo are exhilarated and terrified by the thriving chaos of Central. Even in the middle of civilization, they stand apart, bound together by their years of isolation. Central is their chance to change that and find the ordinary lives they never



Robots in Risky Jobs: On the Battlefield and Beyond (The World of Robots)

What do disarming bombs and exploring the surface of Mars have in common? These activities are dangerous or impossible for humans. That's why robots do them instead! Discover the risky missions robots perform for us.



CCCP COOK BOOK: True Stories of Soviet Cuisine

As the Soviet Union struggled along the path to communism, food shortages were commonplace, and both Party authorities and Soviet citizens had to apply every ounce of ingenuity to maximize often-inadequate resources. The stories and recipes contained in the CCCP Cook Book reflect these turbulent ti

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What others say about this ebook:

Review 1:

Nice book for people work in evolutionary theory.

Review 2:

I can't add anything significant to what other reviewers have said. Rice's is a unique and theoretically deep presentation. There are a few common topics that aren't covered, but there is no other introduction to population genetics that covers all of the topics that Rice does. More importantly, much of what he covers is tied together in a way that gives the reader deeper insights into all of the material in the book.

Review 3:

At first glance Dr. Rice's book appears to be a somewhat generic introduction to population genetic theory. The first few chapters, which lay out the basic selection- at-one-or-two-loci seemingly required of all such texts, are written clearly, but nonetheless seem basically interchangeable with most other discussions of the topic. In my opinion, however, Rice's brilliance really shows through in the subsequent chapters, in particular his exposition of the Price Equation (presented in chapter 6). Here, Rice presents arguments and explanations of the fundamentals of the evolutionary process that I found unique, easy to follow, and full of deep insight. The mathematics require nothing more than algebra, but nonetheless the concepts really influenced my way of thinking about evolution.

The later chapters deal with several specific issues (developmental evolution, multilevel selection, etc), and sometimes require fairly advanced mathematics (eg. tensor analysis). The chapter on multilevel selection provides a fairly clear introduction to using the Price Equation to actually solve population genetic problems.

The text is fairly short, and some sections don't get the attention they deserve (particularly on coalescent theory). Nonetheless, the clearly presented introductory material, combined with the deep insight offered by some of the later chapters, should make this book of interest to both early graduate students as well as population genetics mavens.

Review 4:

This is a fantastic book and will be a classic in evolutionary biology for decades to come. Rice has perhaps a unique ability to explain complex topics in a way that makes them accessible to a wide audience. He also has a special talent for identifying unifying themes that demonstrates the connections between various evolutionary processes. Every evolutionary biologist needs a copy of this book.

Review 5:

This book is an extremely well-written and accessible resource. As mentioned in a previous review, each subject receives mathematically detailed treatment (without getting bogged down in irrelevant detail) along with intuitive explanations of the biological meaning and behavior of the math. It therefore provides plenty of useful material for readers with diverse backgrounds. The book benefits from a focus and clarity that proves painfully absent in many other science texts, and it is deceptively short as a result. Page for page, this text packs in far more comprehensible content than any other on my shelf.

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