

The New Statistics with R: An Introduction for Biologists

By Andy Hector

Download now

Read Online

The New Statistics with R: An Introduction for Biologists By Andy Hector

Statistical methods are a key tool for all scientists working with data, but learning the basic mathematical skills can be one of the most challenging components of a biologist's training. This accessible book provides a contemporary introduction to the classical techniques and modern extensions of linear model analysis: one of the most useful approaches in the analysis of scientific data in the life and environmental sciences. It emphasizes an estimation-based approach that accounts for recent criticisms of the over-use of probability values, and introduces alternative approaches using information criteria. Statistics are introduced through worked analyses performed in R, the free open source programming language for statistics and graphics, which is rapidly becoming the standard software in many areas of science and technology. These analyses use real data sets from ecology, evolutionary biology and environmental science, and the data sets and R scripts are available as support material. The book's structure and user friendly style stem from the author's 20 years of experience teaching statistics to life and environmental scientists at both the undergraduate and graduate levels.

The New Statistics with R is suitable for senior undergraduate and graduate students, professional researchers, and practitioners in the fields of ecology, evolution, environmental studies, and computational biology.

Download The New Statistics with R: An Introduction for Bio ...pdf

Read Online The New Statistics with R: An Introduction for B ...pdf

The New Statistics with R: An Introduction for Biologists

By Andy Hector

The New Statistics with R: An Introduction for Biologists By Andy Hector

Statistical methods are a key tool for all scientists working with data, but learning the basic mathematical skills can be one of the most challenging components of a biologist's training. This accessible book provides a contemporary introduction to the classical techniques and modern extensions of linear model analysis: one of the most useful approaches in the analysis of scientific data in the life and environmental sciences. It emphasizes an estimation-based approach that accounts for recent criticisms of the over-use of probability values, and introduces alternative approaches using information criteria. Statistics are introduced through worked analyses performed in R, the free open source programming language for statistics and graphics, which is rapidly becoming the standard software in many areas of science and technology. These analyses use real data sets from ecology, evolutionary biology and environmental science, and the data sets and R scripts are available as support material. The book's structure and user friendly style stem from the author's 20 years of experience teaching statistics to life and environmental scientists at both the undergraduate and graduate levels.

The New Statistics with R is suitable for senior undergraduate and graduate students, professional researchers, and practitioners in the fields of ecology, evolution, environmental studies, and computational biology.

The New Statistics with R: An Introduction for Biologists By Andy Hector Bibliography

- Sales Rank: #1246126 in Books
- Brand: Oxford University Press USA
- Published on: 2015-03-15
- Released on: 2015-03-15
- Original language: English
- Number of items: 1
- Dimensions: 6.60" h x .50" w x 9.40" l, .84 pounds
- Binding: Paperback
- 208 pages

Download The New Statistics with R: An Introduction for Bio ...pdf

Read Online The New Statistics with R: An Introduction for B ...pdf

Download and Read Free Online The New Statistics with R: An Introduction for Biologists By Andy Hector

Editorial Review

Review

"Prof. Hector's book should be very much welcome by students, statistics teachers and practitioners. The individual chapters are ready-made computer laboratory sessions. Working through them will certainly teach the basics of data analysis." --*Systematic Biology*

"[O]verall the book gives useful, ecumenical, and reliable statistical advice. I would recommend it for courses that are trying to equip students who already know elementary statistics with the basic tools they need to understand and perform analyses of real, messy data." --*Ben Bolker, The Quarterly Review of Biology*

"The book is suitable for undergraduate and graduate students, researchers and practitioners in biological sciences. ... [W]orthy of wide use." --*The Biologist*

About the Author

Andy Hector, *Professor of Ecology, Department of Plant Sciences, University of Oxford*

Andy Hector is Professor of Ecology in the University of Oxford's Department of Plant Sciences. He currently convenes and teaches statistics on the Quantitative Methods for Biologists course for undergraduates. He is a community ecologist interested in biodiversity loss and its consequences for ecosystem functioning, stability and services and scientific PI of the Sabah Biodiversity Experiment. He has contributed to several publications on ecological analysis.

Users Review

From reader reviews:

David Marx:

This book untitled The New Statistics with R: An Introduction for Biologists to be one of several books that best seller in this year, here is because when you read this publication you can get a lot of benefit upon it. You will easily to buy this specific book in the book store or you can order it by way of online. The publisher in this book sells the e-book too. It makes you more easily to read this book, as you can read this book in your Smartphone. So there is no reason to you personally to past this guide from your list.

Elizabeth Pipkin:

People live in this new day time of lifestyle always try and and must have the extra time or they will get wide range of stress from both way of life and work. So , when we ask do people have spare time, we will say absolutely indeed. People is human not a robot. Then we request again, what kind of activity are you experiencing when the spare time coming to you of course your answer will unlimited right. Then do you try this one, reading ebooks. It can be your alternative in spending your spare time, the particular book you have read is actually The New Statistics with R: An Introduction for Biologists.

Kelly Cruz:

You could spend your free time to study this book this guide. This The New Statistics with R: An Introduction for Biologists is simple bringing you can read it in the recreation area, in the beach, train as well as soon. If you did not include much space to bring the actual printed book, you can buy the particular e-book. It is make you easier to read it. You can save typically the book in your smart phone. And so there are a lot of benefits that you will get when one buys this book.

Thomas Crittenden:

As a university student exactly feel bored in order to reading. If their teacher asked them to go to the library or to make summary for some reserve, they are complained. Just small students that has reading's heart and soul or real their hobby. They just do what the professor want, like asked to go to the library. They go to generally there but nothing reading significantly. Any students feel that reading through is not important, boring in addition to can't see colorful images on there. Yeah, it is to get complicated. Book is very important for yourself. As we know that on this period, many ways to get whatever you want. Likewise word says, ways to reach Chinese's country. So , this The New Statistics with R: An Introduction for Biologists can make you truly feel more interested to read.

Download and Read Online The New Statistics with R: An Introduction for Biologists By Andy Hector #O6PUYDFKMI1

Read The New Statistics with R: An Introduction for Biologists By Andy Hector for online ebook

The New Statistics with R: An Introduction for Biologists By Andy Hector Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The New Statistics with R: An Introduction for Biologists By Andy Hector books to read online.

Online The New Statistics with R: An Introduction for Biologists By Andy Hector ebook PDF download

The New Statistics with R: An Introduction for Biologists By Andy Hector Doc

The New Statistics with R: An Introduction for Biologists By Andy Hector Mobipocket

The New Statistics with R: An Introduction for Biologists By Andy Hector EPub