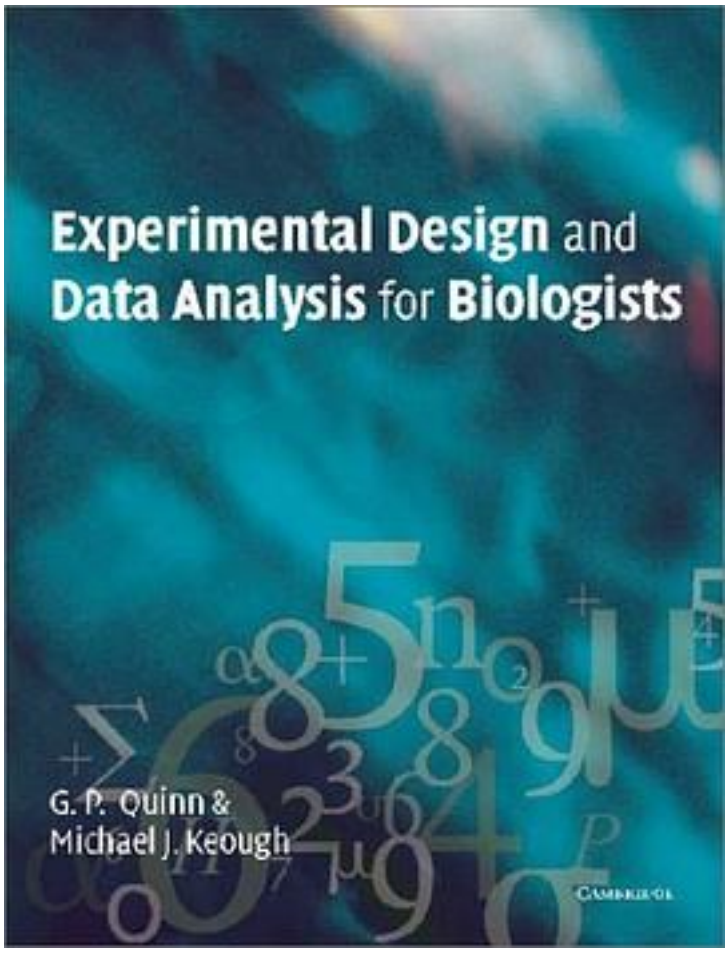
Experimental Design and Data Analysis for Biologists



Experimental Design and Data Analysis for Biologists_下载链接1_

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An essential textbook for any student or researcher in biology needing to design

experiments, sample programs or analyse the resulting data. The text begins with a revision of estimation and hypothesis testing methods, covering both classical and Bayesian philosophies, before advancing to the analysis of linear and generalized linear models. Topics covered include linear and logistic regression, simple and complex ANOVA models (for factorial, nested, block, split-plot and repeated measures and covariance designs), and log-linear models. Multivariate techniques, including classification and ordination, are then introduced. Special emphasis is placed on checking assumptions, exploratory data analysis and presentation of results. The main analyses are illustrated with many examples from published papers and there is an extensive reference list to both the statistical and biological literature. The book is supported by a website that provides all data sets, questions for each chapter and links to software.

作者介绍:

Gerry Quinn is a Senior Lecturer in the School of Biological Sciences at Monash University, and Program Leader in the Cooperative Research Centre for Freshwater Ecology. He has taught experimental design and analysis courses for a number of years and has provided advice on the design and analysis of sampling and experimental programs in ecology and environmental monitoring to a wide range of university and government scientists. Gerry Quinn is a co-author of Monitoring Ecological Impacts: Concepts and Practice in Flowing Waters, Cambridge University Press, 2002.

Michael Keough is a Reader in Zoology at the University of Melbourne. His research interests lie in marine ecology, environmental science, and conservation biology. He has extensive experience teaching experimental design and analysis courses at a number of universities. He has also provided advice on design and analysis for environmental monitoring to a wide range of environmental consultants, and state and federal governments in Australia. Michael Keough is a co-author of Monitoring Ecological Impacts: Concepts and Practice in Flowing Waters, Cambridge University Press, 2002.

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标签

生物

未完成

数据科学

评论

Really comprehensive although quite wordy.

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书评

生物统计分析的入门书籍，或许是最重要的一本
娓娓道来的一本书，以举例隐身只是的一本书，语言简单明了。但是还是有小部分具有争议，同时随着计算机语言的发展，有些方法上滞后了，希望作者可以更新版本！
总体评价：如果你想了解生物统计，稍微深入的了解，那么一定读。

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