



# Modelling and Quantitative Methods in Fisheries, Second Edition

By Malcolm Haddon



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With numerous real-world examples, **Modelling and Quantitative Methods in Fisheries, Second Edition** provides an introduction to the analytical methods used by fisheries' scientists and ecologists. By following the examples using Excel, readers see the nuts and bolts of how the methods work and better understand the underlying principles. Excel workbooks are available for download from CRC Press website.

In this second edition, the author has revised all chapters and improved a number of the examples. This edition also includes two entirely new chapters:

- *Characterization of Uncertainty* covers asymptotic errors and likelihood profiles and develops a generalized Gibbs sampler to run a Markov chain Monte Carlo analysis that can be used to generate Bayesian posteriors
- *Sized-Based Models* implements a fully functional size-based stock assessment model using abalone as an example

This book continues to cover a broad range of topics related to quantitative methods and modelling. It offers a solid foundation in the skills required for the quantitative study of marine populations. Explaining important and relatively complex ideas and methods in a clear manner, the author presents full, step-by-step derivations of equations as much as possible to enable a thorough understanding of the models and methods.



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## Modelling and Quantitative Methods in Fisheries, Second Edition By Malcolm Haddon Bibliography

- Sales Rank: #1143858 in Books
- Brand: Brand: Chapman and Hall/CRC
- Published on: 2011-03-11
- Original language: English
- Number of items: 1
- Dimensions: 1.20" h x 6.30" w x 9.20" l, .74 pounds
- Binding: Hardcover
- 465 pages

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## **Editorial Review**

### **Review**

The text remains true to the author's initial aim of providing an introduction to the analytical methods currently being used in quantitative biology and fisheries science. It is important to remember when reading this book that there are few texts that students can truly consult on fisheries science without a detailed understanding of stock assessment and fisheries management practices?this text continues to bridge that gap. The material has been revised and improvements made to a number of the examples. Two concerns and reservations that I commented on in my previous review have been addressed by the inclusion of two new chapters?one on characterizing uncertainty covering asymptotic errors and likelihood profiles, and the other on size-based models using abalone as an example. The book is lavishly illustrated throughout with the use of Microsoft Excel workbooks which adds to the flexibility, availability and ease of use of the text. I recommend the text both as a course companion and for private study.

?Carl M. O'Brien, *International Statistical Review*, 2012

### **Praise for the First Edition:**

The book is a good introduction to modeling for students and practitioners. The emphasis is on population models, with chapters on parameter estimation, randomization tests, resampling methods, Monte Carlo methods, stock-recruitment, and age-structures models. One helpful feature is the use of spreadsheet examples to illustrate the methods.

?*Fisheries*, 2002

### **About the Author**

**Malcolm Haddon** is a senior fisheries modeller for CSIRO in Hobart, Tasmania, Australia. Prior to joining CSIRO, Dr. Haddon was an associate professor at the University of Tasmania, head of fisheries at Australian Maritime College, a senior research fellow at the University of Sydney, editor of the *New Zealand Journal of Marine and Freshwater Research*, and a lecturer at Victoria University of Wellington. He has conducted stock assessments on Tasmanian rock lobster, giant crab, and abalone. Now at CSIRO, he continues to produce stock assessments of abalone but also for an array of Australian Commonwealth fisheries.

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#### **Matthew Wallace:**

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