Modelling and Quantitative Methods in Fisheries, Second Edition

Malcolm Haddon
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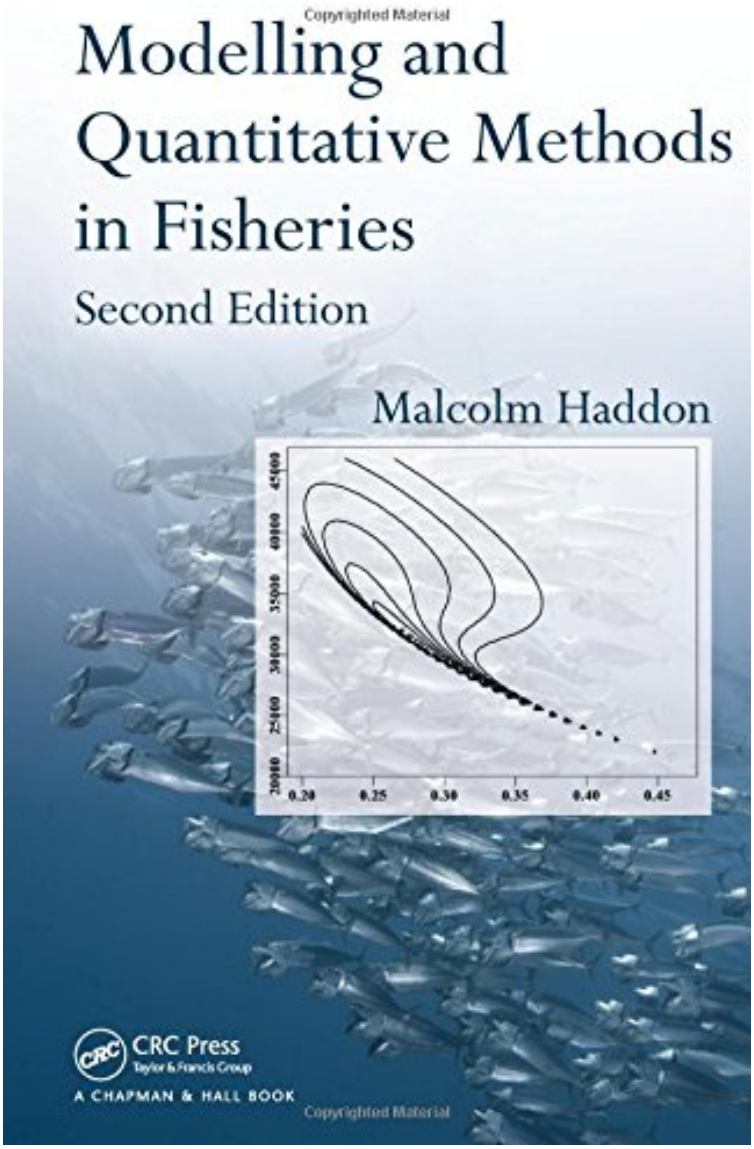

#713221 in Books Chapman and Hall/CRC 2011-03-11Original language:EnglishPDF # 1 1.20 x 6.30 x 9.20l, .74 #File Name: 1584885610465 pages | File size: 72.Mb

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fisheries biologists and examples that are easily worked in Microsoft Excel. Graduate students and practicing biologists won't be disappointed with this purchase.0 of 0 people found the following review helpful. Great catch !!!By Deepak George PThis is an excellent book for those who are working in 'fisheries management'. The most exciting thing about the book is the worked out numerical examples in Excel spreadsheets (downloadable). If you are not a quantitative person, this is the book you are looking for.0 of 0 people found the following review helpful. Five StarsBy CustomerGood purchase - fast!

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.

The text remains true to the authors 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 practicesthis 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 chaptersone 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. OBrien, International Statistical , 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, 2002About the AuthorMalcolm 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.