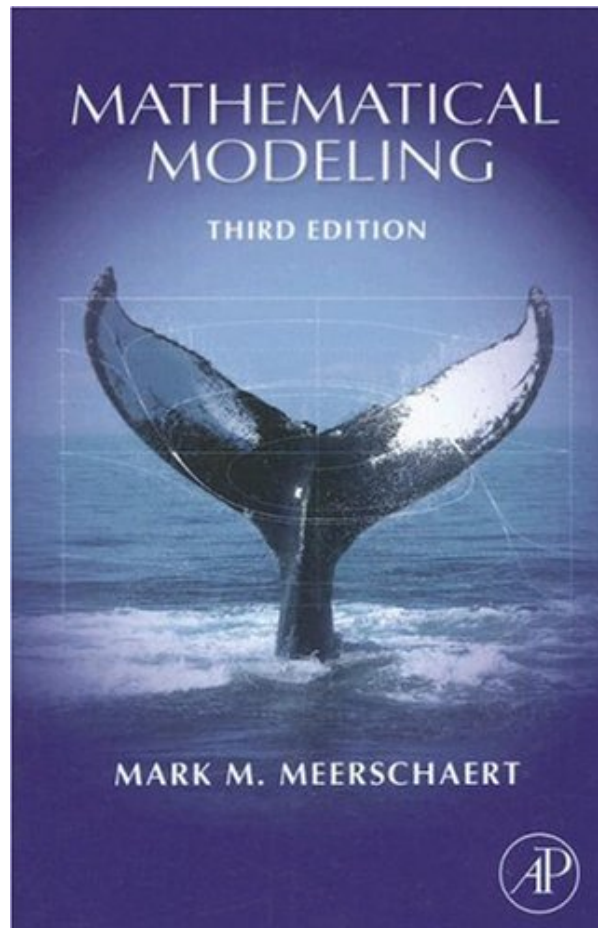


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Each chapter in this book is followed by a set of challenging exercises. These exercises require significant effort on the part of the student, as well as a certain amount of creativity. Meerschaert did not invent the problems in this book--they are real problems, not designed to illustrate the use of any particular mathematical technique. Meerschaert's emphasis on principles and general techniques offers students the mathematical background they need to model problems in a wide range of disciplines.

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If you teach, or learn modeling on your own, try this one

By Ignacio Fernandez Mendez

In this book you'll find, fully explained, subjects that are only mentioned briefly in other texts on modeling. I liked the chapter (chapter five) on Eigenvalue Methods for the analysis of dynamic models. I wished I had it four years ago when I was taking a course on modeling at the University of Washington. It really shows you how to do it. The same can be said about chapters 2 and 3 on optimization and chapters 7 and 8 on

probability models (I liked specially the one on Markov Chains). I'm using it for teaching those techniques. The pseudocode it includes is particularly helpful when you take the methods presented in the book to the computer. However, I would not recommend it to be used on its own as the only text in a course. It is a nice complement to texts like Gurney and Nisbet's *Ecological Dynamics* that presents many particular models in detail, while Meerschaert makes emphasis on general techniques. It's also a step up the ladder from "abc-of-modeling-techniques" texts like Vandermeer's *Elementary Mathematical Ecology*. With 20/20 hindsight, if I had to learn modeling from the beginning (or, if I had to teach it as I'm doing now) I would choose these titles as a step-by-step system, coupled with some Math packages like MathCad or Matlab.

2 of 2 people found the following review helpful.

simply a brilliant book

By Ghassan Ayesh

The book is well organized, smooth in its presentation, clear in its language and presents the topics in a good growing natural maturing sequence. I was initially intimidated by the subject and worried that the math might be dry and/or hard to digest. To the contrary, the book proceeds in a natural manner from simple to mature (not hard) covering from linear programming to dynamic models to stochastic probabilistic models in a very clear compelling and convincing manner all the way explaining why and how the need for the new model emerged. Surprisingly it is not a long read too as it is a mere 350 pages, but the book is a rich clear reading experience I would say. I couldn't be more satisfied than this, with a book on this subject.

The other notable thing about the book which shines out immediately considering the concise number of pages (~350 pages) is that the author focuses on the meat of the subject right from the very beginning, straight to the point with real life examples, no wasting of your time, just the real subject matter. No proofs or side tracking; just as the book's title says: mathematical modeling.

For me coming from artificial intelligence background with data mining, I needed to learn the topic as soon as possible for work related needs. The book served me the most. Truly brilliant. Thanks.

4 of 5 people found the following review helpful.

Great book for beginners

By Hari K Rajagopalan

This is a good book for beginners who want to start Math Models. This book, starts with actual problem with numbers and so is not abstract. It helps my students understand the concepts better

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