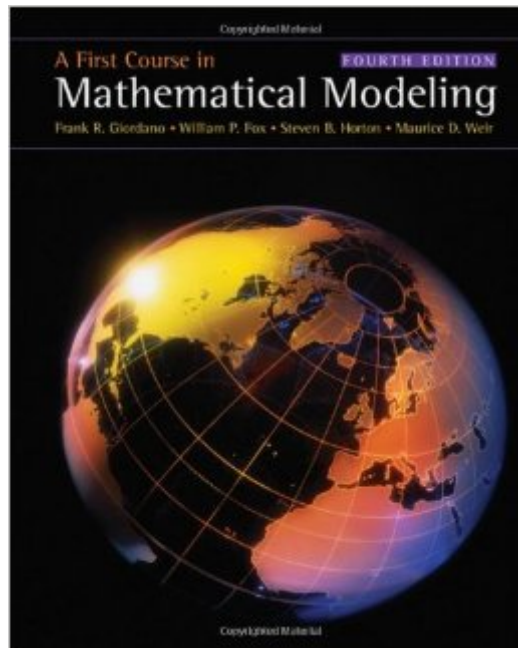


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# A First Course In Mathematical Modeling



## Synopsis

Offering a solid introduction to the entire modeling process, *A FIRST COURSE IN MATHEMATICAL MODELING*, 4th Edition delivers an excellent balance of theory and practice, and gives you relevant, hands-on experience developing and sharpening your modeling skills. Throughout, the book emphasizes key facets of modeling, including creative and empirical model construction, model analysis, and model research, and provides myriad opportunities for practice. The authors apply a proven six-step problem-solving process to enhance your problem-solving capabilities -- whatever your level. In addition, rather than simply emphasizing the calculation step, the authors first help you learn how to identify problems, construct or select models, and figure out what data needs to be collected. By involving you in the mathematical process as early as possible -- beginning with short projects -- this text facilitates your progressive development and confidence in mathematics and modeling.

## Book Information

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## Customer Reviews

I wanted to find a book that could teach me how to use math to model problems better. This book covers many different ways to make mathematical models. This book isn't going to overwhelm you with math, it shows you the pitfalls with different ways of modelling things. I recommend this book to anyone who wants to learn how to apply math to real world problems.

From discrete to continuous modelling, with many projects and examples, I like very specially this book for the undergraduate level. The presentation is very clear, but rigorous, making experience

the reader through the models. It focuses on the interpretation and ends with some tools for modelbuilding. For a start of mathematical model understanding of reality this book is specially good, clear and completely well written. Good job Mr. Giordano and Weir! See also: Mesterton-Gibbons: An approach to Mathematical Modelling, Fowler: Mathematical Models in the Sciences, Beltrami: Mathematics for Dynamical Modeling, Morrison: The Art of Modeling Dynamical Systems and Giordano: Differential Equations a Modeling Approach.

this is a standard on modelling, covers the basics and is very helpful. would recommend for anyone looking to learn modelling in a straightforward manner.

Solid book for good examples

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