

A First Course in Mathematical Modeling


By Frank R. Giordano, William P. Fox, Steven B. Horton



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Offering a solid introduction to the entire modeling process, A FIRST COURSE IN MATHEMATICAL MODELING, 5th 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.

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Editorial Review

About the Author

Frank R. Giordano began his teaching career at the United States Military Academy, West Point, New York, where he served for 21 years, including seven years as professor and head of the Department of Mathematical Sciences. He currently is a Professor of Defense Analysis and Operations Research at the Naval Postgraduate School, Monterey, CA. He has served as project director for several major National Science Foundation grants devoted to modeling, including one to initiate a high school modeling contest (the HiMCM). For the past 15 years, he has served as the director of the Mathematical Contest in Modeling.

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