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case study of alcohol in the bloodstream), exponential growth of population, limited growth of population, limited growth with harvesting.

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This book explains the process of modelling real situations to obtain mathematical problems that can be analyzed, thus solving the original problem. The presentation is in the form of case studies, which are developed much as they would be in true applications. In many cases, an initial model is created, then modified along the way.

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Includes many case studies to provide a practical understanding of how the models are used in current research, such as environmental science, biology, and archaeology; Supplies Maple and MATLAB® codes in the text and online so results can be reproduced exactly



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Modeling and Digital Simulation Case Studies

Case Studies in Mathematical Modeling—Ecology, Physiology, and Cell Biology H. G. Othmer F. R. Adler M. A. Lewis J. C. Dallon  
July 21, 1997

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environment used extensively in industry. We will not be able to cover the vast capability of Simulink with a few examples; you are encouraged to explore

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