



## Principles of Mathematical Modeling (Hardback)

By Dym

Elsevier Science Publishing Co Inc, United States, 2004.

Hardback. Book Condition: New. 2nd Revised edition. 228 x 158

mm. Language: English . Brand New Book. Science and

engineering students depend heavily on concepts of

mathematical modeling. In an age where almost everything is

done on a computer, author Clive Dym believes that students

need to understand and own the underlying mathematics that

computers are doing on their behalf. His goal for Principles of

Mathematical Modeling, Second Edition , is to engage the

student reader in developing a foundational understanding of

the subject that will serve them well into their careers. The first

half of the book begins with a clearly defined set of modeling

principles, and then introduces a set of foundational tools

including dimensional analysis, scaling techniques, and

approximation and validation techniques. The second half

demonstrates the latest applications for these tools to a broad

variety of subjects, including exponential growth and decay in

fields ranging from biology to economics, traffic flow, free and

forced vibration of mechanical and other systems, and

optimization problems in biology, structures, and social decision

making. Prospective students should have already completed

courses in elementary algebra, trigonometry, and first-year

calculus and have some familiarity...



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