

A First Course in

MATHEMATICAL MODELING

Fifth Edition

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Solution Manual

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Mike Jess



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textbook also discusses classical and Laplace transform methods for obtaining the analytical solution of differential equations. In addition, the authors explain how to solve sets of differential equations where analytical solutions cannot easily be obtained. Incorporating valuable suggestions from mathematicians and mathematics professors, the third edition reworks the chapter "Response of First and Second Order Systems" to include the system response to step changes, impulses, rectangular pulses, and sinusoid forcing functions, as well as the response of coupled first and second order ordinary differential equations (ODEs). It also introduces Bode plots to analyze the frequency response of second order ODEs and the principle of oscillation modes in coupled second order ODEs. Adds a new section on springs and dampers in series or parallel. Includes new content on Simulink and modeling. Contains new exercises that can be used as projects and answers to many of the end-of-chapter problems. Features new end-of-chapter problems and updates throughout. This textbook provides students with a practical understanding of how to apply differential equations in modern engineering and science. A solutions manual and files of all figures in the text are available to adopting professors.

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