Advanced Engineering Mathematics with MATLAB, Third Edition (Advances in Applied Mathematics)

Dean G. Duffy

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- New chapter on Green's functions
- New section that uses the matrix exponential to solve systems of differential equations
- More numerical methods for solving differential equations, including Adams–Bashforth and finite element methods
- New chapter on probability that presents basic concepts, such as mean, variance, and probability density functions
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Suitable for a differential equations course or a variety of engineering mathematics courses, the text covers fundamental techniques and concepts as well as Laplace transforms, separation of variable solutions to partial differential equations, the z-transform, the Hilbert transform, vector calculus, and linear algebra. It also highlights many modern applications in engineering to show how these topics are used in practice. A solutions manual is available for qualifying instructors.

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