



### **Advanced Engineering Mathematics**

By Merle C. Potter, J. L. Goldberg, Edward Aboufadel



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This third edition of *Advanced Engineering Mathematics* has been completely updated and revised to reflect changes in undergraduate engineering education based on the widespread use of computers. Written specifically for engineering students, it introduces mathematical methods essential to solving real-world problems.

Written in a clear, accessible style, the third edition incorporates three software packages--Maple®, Excel®, and MATLAB®--in problems and examples throughout the text. Topics covered include series methods, Laplace transforms, matrix theory and applications, vector analysis, Fourier series and transforms, partial differential equations, numerical methods using finite differences, complex variables, and wavelets.

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- ${\bf @}$  Incorporates Maple  ${\bf @}$  throughout, with some applications of Excel  ${\bf @}$  and MATLAB  ${\bf @}$
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