Advanced Engineering Mathematics

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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--MapleRG, ExcelRG, and MATLABRG--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. Advanced Engineering Mathematics, Third Edition, is ideal for upper-level undergraduate or first-year graduate courses in advanced engineering mathematics, engineering analysis, or applied mathematics. Features RGWritten for engineering students RGFocuses on real-world problems RG Incorporates MapleRG throughout, with some applications of ExcelRG and MATLABRG RGReviews solutions of ordinary differential equations RGPresents a new chapter on wavelets and a new section on Fourier Transforms A Solutions Manual (0-19-522215-6) is available to adopters.

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