



# Advanced Engineering Mathematics

*Ervin Kreyszig*

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This updated fifth edition of the bestselling text advanced engineering mathematics provides an in-depth overview of the many mathematical topics required for students planning a career in engineering or the sciences. Comprehensive, accessible, and thorough, this highly flexible text is the ideal resource for a multitude of science and engineering classes, and will prove invaluable to graduate and undergraduate students pursuing careers in these fields. Critically acclaimed author dennis g. Zill has structured the text around the belief that the backbone of science- and engineering-related mathematics is the theory and application of ordinary and partial differential equations, resulting in a text that is as relevant and well-organized as it is thorough. The revised and updated fifth edition includes a full suite of instructor materials, including a complete solutions manual, test bank, image bank, and lecture outlines in powerpoint format, and additional chapters on probability and statistics. Features & benefits: - eight all-new contributed applied project problems spread throughout the text, including an in-depth discussion of the mathematics and history of the paris guns of world war i - an all-new section on the lu-factorization of a matrix - updated examples throughout - revisions and reorganization throughout the text to improve clarity and flow - an expanded discussion of spherical bessel functions - all-new boundary-value problems added to the chapters on partial differential equations

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