



# Advanced Engineering Mathematics

*By Dennis G. Zill, Michael R. Cullen*

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Unlike a course in "calculus" or "differential equations", in which the content of the course is fairly standardized, the content of a course titled "engineering mathematics" often varies considerably among academic institutions. A text in Advanced Engineering Mathematics is, therefore a compendium of many mathematical topics, all of which are loosely related by the expedient of either being needed or useful in courses and subsequent careers in science and engineering. There is literally no upper bound to the number of topics that could be included in this kind of text. Consequently, this book represents the most accurate list of what constitutes "engineering mathematics" in the authors' opinions. For flexibility in topic selection the text is divided into five major parts or subdivisions that illustrate the authors' belief that the backbone of science/engineering related mathematics is the theory and applications of ordinary and partial differential equations.

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