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research work by the authors on the use of the Integral Transform Method in the solution of differential eigenvalue problems and nonlinear partial differential equations, respectively.

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This is an introductory text aimed at undergraduate and postgraduate students of mathematics, statistics, physical science, computer science, engineering and management. It is also valuable as a resource book for practicing scientists and engineers who have to use numerical procedure to solve problems. The relationship to the fundamental mathematical basis for the procedures is presented so that true understanding of the subject is attained. Clarity of exposition, development through examples and logical arrangement of topics help students to become more adept at applying the method. A lot of objective questions are given at the end of each chapter. Each exercise set contains problems designed to provide students with the opportunity to practice the sequence of calculations associated with a particular method.

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