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By Royal Eugene Collins

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Topics include elementary vector calculus, matrix algebra, and linear vector operations; the many and varied methods of solving linear boundary value problems, including the more common special functions of mathematical physics; the calculus of variations, and variational and perturbation approximations applicable to boundary value problems and nonlinear differential equations; curve fitting and numerical approximation methods; the basic elements of probability and their application to physical problems; and integral equations.

Rather than aiming at a complete mastery of these complicated subjects, the text focuses on the fundamental applied mathematics the student needs to deal with physics and engineering problems. Instructors in those subjects will particularly appreciate this volume's function as a self-contained study resource, allowing them to devote fewer classroom hours to formal lectures in mathematics.

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