
Boundary Value Problems. *A. G. Mackie.* Hafner Publishing Co., New York. 1965. 252 p.

Because most texts with this title are concerned primarily with Fourier Series, it is worthwhile to note that this author discusses several methods for solving partial differential equations stressing integral transforms and the use of Green's Functions. Only a brief mention of Fourier sine and cosine series is included as a special case of eigen-function expansions. A good account of the theory of eigen-value problems is included. Fourier integrals and transforms are discussed at some length in chapter four. The most outstanding feature of this text is the discussion of Green's Functions and their connection with the Riemann method for solving hyperbolic equations.

An introductory discussion of Laplace transforms and the delta function is given in chapter one, but this represents one of the weaker points of the text. The discussion of Laplace transforms should either have been omitted or improved considerably.

No attempt is made to give a rigorous treatment of the topics included, but the author does offer a good account of the theory necessary for understanding the methods employed in solving Boundary Value problems. Many exercises are given involving both basic methods and theory.

BEN F. PLYBON