# Fourier Analysis and Boundary Value Problems

*Enrique A. Gonzalez-Velasco*

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**Fourier Analysis and Boundary Value Problems** Enrique A. Gonzalez-Velasco
**Fourier Analysis and Boundary Value Problems** provides a thorough examination of both the theory and applications of partial differential equations and the Fourier and Laplace methods for their solutions. Boundary value problems, including the heat and wave equations, are integrated throughout the book. Written from a historical perspective with extensive biographical coverage of pioneers in the field, the book emphasizes the important role played by partial differential equations in engineering and physics. In addition, the author demonstrates how efforts to deal with these problems have lead to wonderfully significant developments in mathematics.

A clear and complete text with more than 500 exercises, **Fourier Analysis and Boundary Value Problems** is a good introduction and a valuable resource for those in the field.

Key Features
* Topics are covered from a historical perspective with biographical information on key contributors to the field
* The text contains more than 500 exercises
* Includes practical applications of the equations to problems in both engineering and physics

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