



# INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS

*K. Sankara Rao*

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# INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS

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## **INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS** K. Sankara Rao

This comprehensive and well-organized book, now in its Third Edition, continues to provide the students with the fundamental concepts, the underlying principles, various well-known mathematical techniques and methods such as Laplace and Fourier transform techniques, the variable separable method, and Green's function method to solve partial differential equations.

The text is supported by a number of worked-out examples and miscellaneous examples to enable the students to assimilate the fundamental concepts and the techniques for solving partial differential equations with various initial and boundary conditions. Besides, chapter-end exercises are also provided with hints to reinforce the students' skill.

It is designed primarily to serve as a textbook for senior undergraduate and postgraduate students pursuing courses in applied mathematics, physics and engineering.

What is new to this edition ?

Adds new sections on linear partial differential equations with constant coefficients and non-linear model equations.

Offers additional worked-out examples and exercises to illustrate the concepts discussed.

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