

Partial Differential Equations

By Phoolan Prasad

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A basic look on partial differential equations. Combines both a rigorous theory and contains material needed in areas of applications. Many examples help to understand the theory deeply. Other examples from the areas of application (e.g., gasdynamics, theory of relativity) show relation between theory and physics. The book provides a basic introductory course in partial differential equations, in which theory and applications are interrelated and developed side by side. Emphasis is on proofs, which are not only mathematically rigorous, but also constructive, where the structure and properties of the solution are investigated in detail. The authors feel that it is no longer necessary to follow the tradition of introducing the subject by deriving various partial differential equations of continuum mechanics and theoretical physics. Therefore, the subject has been introduced by mathematical analysis of the simplest, yet one of the most useful (from the point of view of applications), class of partial differential equations, namely the equations of first order, for which existence, uniqueness and stability of the solution of the relevant problem (cauchy problem) is easy to discuss. Throughout the book, attempt has been made to introduce the important ideas from relatively simple cases, some times by referring to physical processes, and then extending them to more general systems. Second order partial differential equations have been discussed in chapter 2. Chapter 3 is devoted to hyperbolic equations in two and more independent variables and also contains sections on simple waves, and weak solutions and shocks. The book will be of immense value to a varied group of postgraduate students of mathematics and of many engineering disciplines, research scientist, and teachers in the universities.

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