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partial differential equations are a vital part of any course in pure or applied mathematics this book will be invaluable to anyone looking for a lucid but comprehensive introduction to pdes designed to strike a balance between theory and practical problems it covers all major methods as well as their historical backgrounds theoretical rigour and geometric significance the book is divided into three parts it starts with basic topics like ordinary differential equations multivariable calculus and geometry this is followed by important techniques to solve certain types of partial differential equations the last part is devoted to first second and higher order pdes the chapters have been arranged to help students develop their knowledge gradually and systematically each method is discussed through theoretical descriptions in the form of theorems followed by illustrative problems to help the readers finally numerous solved examples and practice problems helps the student learn to apply this knowledge

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