



Ordinary and Partial Differential Equations: With Special Functions, Fourier Series, and Boundary Value Problems (Paperback)

By Ravi P. Agarwal, Donal O'Regan

Springer-Verlag New York Inc., United States, 2008. Paperback. Condition: New. 2009 ed.. Language: English . Brand New Book. In this undergraduate/graduate textbook, the authors introduce ODEs and PDEs through 50 class-tested lectures. Mathematical concepts are explained with clarity and rigor, using fully worked-out examples and helpful illustrations. Exercises are provided at the end of each chapter for practice. The treatment of ODEs is developed in conjunction with PDEs and is aimed mainly towards applications. The book covers important applications-oriented topics such as solutions of ODEs in form of power series, special functions, Bessel functions, hypergeometric functions, orthogonal functions and polynomials, Legendre, Chebyshev, Hermite, and Laguerre polynomials, theory of Fourier series. Undergraduate and graduate students in mathematics, physics and engineering will benefit from this book. The book assumes familiarity with calculus.



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