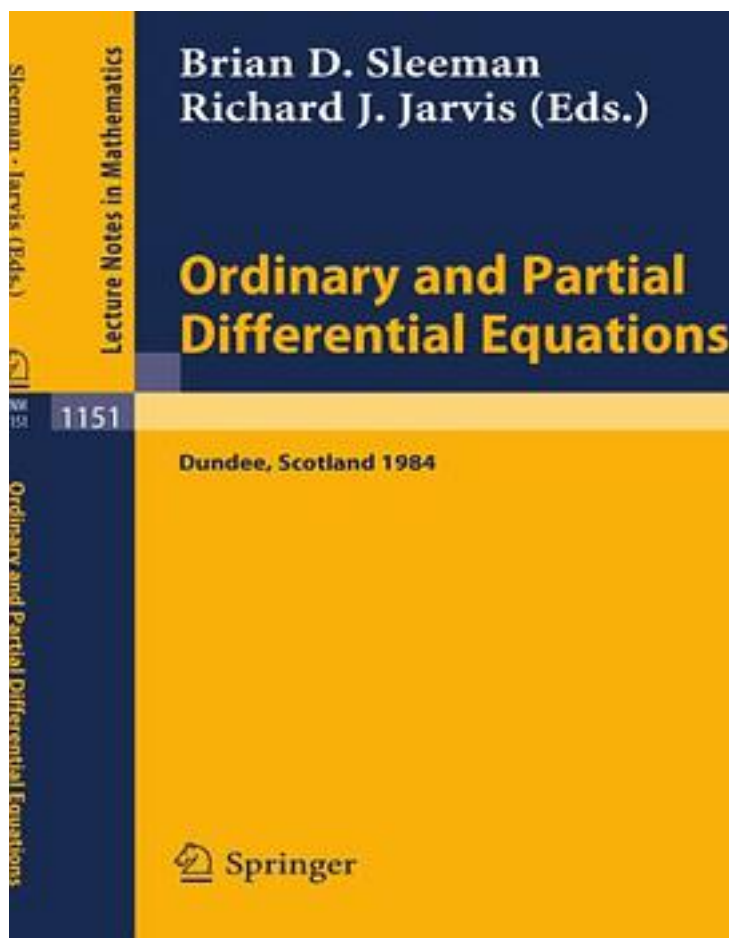


# Ordinary and Partial Differential Equations



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著者:Agarwal, Ravi P./ O'Regan, Donal

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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.

作者介绍:

Authors

Ravi P. Agarwal(1)

Donal O' Regan(2)

Author Affiliations

1.Florida Institute of Technology Department of Mathematical Sciences 150 West University Blvd. Melbourne FL 32901

2.Mathematics Department Galway University Road National University of Ireland Galway Ireland

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