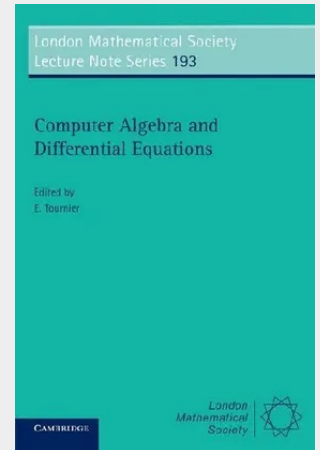


Computer Algebra and Differential Equations

The Computer Algebra and Differential Equations meeting held in France in June 1992 (CADE-92) was the third of a series of biennial workshops devoted to recent developments in computer algebra systems. This book contains selected papers from that meeting. Three main topics are discussed. The first of these is the theory of D-modules. This offers an excellent way to effectively handle linear systems of partial differential equations. The second topic concerns the theoretical aspects of dynamical systems, with an introduction to Ecalle theory and perturbation analysis applied to differential equations and other nonlinear systems. The final topic is the theory of normal forms. Here recent improvements in the theory and computation of normal forms are discussed.

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74,50 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780521447577

Medium: Buch

ISBN: 978-0-521-44757-7

Verlag: Cambridge University Press

Erscheinungstermin: 19.12.1994

Sprache(n): Englisch

Auflage: Erscheinungsjahr 1994

Serie: London Mathematical Society
Lecture Note Series

Produktform: Kartoniert

Gewicht: 440 g

Seiten: 267

Format (B x H): 152 x 229 mm

