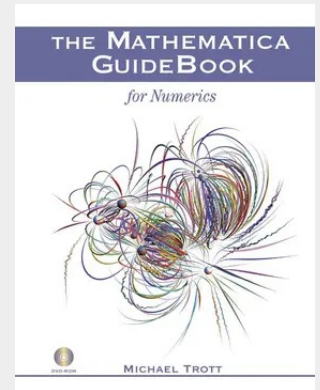


The Mathematica GuideBook for Numerics

Mathematica is today's most advanced technical computing system, featuring a rich programming environment, two-and three-dimensional graphics capabilities and hundreds of sophisticated, powerful programming and mathematical functions using state-of-the-art algorithms. Combined with a user-friendly interface and a complete mathematical typesetting system, Mathematica offers an intuitive, easy-to-handle environment of great power and utility.

"The Mathematica GuideBook for Numerics" (text and code fully tailored for Mathematica 5.1) concentrates on Mathematica's numerical mathematics capabilities. The available types of arithmetic (machine, high-precision, and interval) are introduced, discussed, and put to use. Fundamental numerical operations, such as compiling programs, fast Fourier transforms, minimization, numerical solution of equations, ordinary/partial differential equations are analyzed in detail and are applied to a large number of examples in the main text and solutions to the exercises.

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171,19 €

159,99 € (zzgl. MwSt.)

Nicht mehr lieferbar

Artikelnummer: 9780387950112

Medium: Buch

ISBN: 978-0-387-95011-2

Verlag: Springer Netherlands

Erscheinungstermin: 12.10.2005

Sprache(n): Englisch

Auflage: 2006

Produktform: Gebunden

Gewicht: 2993 g

Seiten: 1208

Format (B x H): 178 x 254 mm

