Markus

Modern FORTRAN in Practice

From its earliest days, the Fortran programming language has been designed with computing efficiency in mind. The latest standard, Fortran 2008, incorporates a host of modern features, including object-orientation, array operations, user-defined types, and provisions for parallel computing. This tutorial guide shows Fortran programmers how to apply these features in twenty-first-century style: modular, concise, object-oriented, and resource-efficient, using multiple processors. It offers practical real-world examples of interfacing to C, memory management, graphics and GUIs, and parallel computing using MPI, OpenMP, and coarrays. The author also analyzes several numerical algorithms and their implementations and illustrates the use of several open source libraries. Full source code for the examples is available on the book's website.

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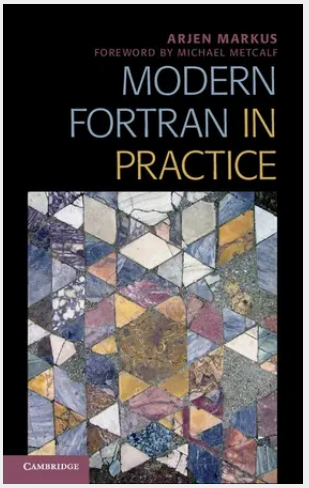

136,50 €
136,50 € (zzgl. MwSt.)

Nicht mehr lieferbar

Artikelnummer: 9781107017900
Medium: Buch
ISBN: 978-1-107-01790-0
Verlag: Cambridge University Press
Erscheinungstermin: 18.06.2012
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2012
Produktform: Gebunden
Gewicht: 548 g
Seiten: 265
Format (B x H): 161 x 235 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)