



B. Koren, K. Vuik (Eds.)

Advanced Computational Methods in Science and Engineering

Series: Lecture Notes in Computational Science and Engineering, Vol. 71

The aim of the present book is to show, in a broad and yet deep way, the state of the art in computational science and engineering. Examples of topics addressed are: fast and accurate numerical algorithms, model-order reduction, grid computing, immersed-boundary methods, and specific computational methods for simulating a wide variety of challenging problems, problems such as: fluid-structure interaction, turbulent flames, bone-fracture healing, micro-electro-mechanical systems, failure of composite materials, storm surges, particulate flows, and so on. The main benefit offered to readers of the book is a well-balanced, up-to-date overview over the field of computational science and engineering, through in-depth articles by specialists from the separate disciplines.

2010

Printed book

Hardcover

▶ 169,99 € | £153.00 | \$239.00

▶ *181,89 € (D) | 186,99 € (A) | CHF 226.50

eBook

Available from your library or

▶ [springer.com/shop](https://www.springer.com/shop)

MyCopy

Printed eBook for just

▶ € | \$ 24.99

▶ [springer.com/mycopy](https://www.springer.com/mycopy)



Order online at [springer.com](https://www.springer.com) ▶ or for the Americas call (toll free) 1-800-SPRINGER ▶ or email us at: orders-ny@springer.com. ▶ For outside the Americas call +49 (0) 6221-345-4301 ▶ or email us at: orders-hd-individuals@springer.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with * include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with ** include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted.