



2008, XI, 471 p.

Printed book

Hardcover

139,99 € | £119.99 | \$169.99

^[1]149,79 € (D) | 153,99 € (A) | CHF 165,50

Softcover

139,99 € | £119.99 | \$169.99

^[1]149,79 € (D) | 153,99 € (A) | CHF 165,50

eBook

118,99 € | £95.50 | \$129.00

^[2]118,99 € (D) | 118,99 € (A) | CHF 132,00

Available from your library or springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

Wilhelmus H. Schilders, Henk A. van der Vorst, Joost Rommes (Eds.)

Model Order Reduction: Theory, Research Aspects and Applications

Series: The European Consortium for Mathematics in Industry

- High-quality book on industrial mathematics by one of the major research consortia in this field

The idea for this book originated during the workshop "Model order reduction, coupled problems and optimization" held at the Lorentz Center in Leiden from September 19–23, 2005. During one of the discussion sessions, it became clear that a book describing the state of the art in model order reduction, starting from the very basics and containing an overview of all relevant techniques, would be of great use for students, young researchers starting in the field, and experienced researchers. The observation that most of the theory on model order reduction is scattered over many good papers, making it difficult to find a good starting point, was supported by most of the participants. Moreover, most of the speakers at the workshop were willing to contribute to the book that is now in front of you. The goal of this book, as defined during the discussion sessions at the workshop, is three-fold: first, it should describe the basics of model order reduction. Second, both general and more specialized model order reduction techniques for linear and nonlinear systems should be covered, including the use of several related numerical techniques. Third, the use of model order reduction techniques in practical applications and current research aspects should be discussed. We have organized the book according to these goals. In Part I, the rationale behind model order reduction is explained, and an overview of the most common methods is described.

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] 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. [3] No discount for MyCopy.

