



Springer

1st  
edition

2008, XV, 826 p.

**Printed book**

Hardcover

**Printed book**

Hardcover

ISBN 978-3-540-69776-3

£ 127,50 | CHF 171,00 | 144,99 € |  
159,49 € (A) | 155,14 € (D)

Available

**Discount group**

Science (SC)

**Product category**

Proceedings

**Other renditions**

Softcover

ISBN 978-3-662-51874-8

**Mathematics : Applications of Mathematics**

Kunisch, K., Of, G., Steinbach, O. (Eds.)

# Numerical Mathematics and Advanced Applications

**Proceedings of ENUMATH 2007, the 7th European Conference on Numerical Mathematics and Advanced Applications, Graz, Austria, September 2007**

The European Conference on Numerical Mathematics and Advanced Applications (ENUMATH) is a series of conferences held every two years to provide a forum for discussion on recent aspects of numerical mathematics and their applications. The first ENUMATH conference was held in Paris (1995), and the series continued by the one in Heidelberg (1997), Jyväskylä (1999), Ischia (2001), Prague (2003), and Santiago de Compostela (2005). This volume contains a selection of invited plenary lectures, papers presented in minisymposia, and contributed papers of ENUMATH 2007, held in Graz, Austria, September 10–14, 2007. We are happy that so many people have shown their interest in this conference. In addition to the ten invited presentations and the public lecture, we had more than 240 talks in nine minisymposia and forty four sessions of contributed talks, and about 316 participants from all over the world, specially from Europe. A total of 98 contributions appear in these proceedings. Topics include theoretical aspects of new numerical techniques and algorithms, as well as to applications in engineering and science. The book will be useful for a wide range of readers, giving them an excellent overview of the most modern methods, techniques, algorithms and results in numerical mathematics, scientific computing and their applications. We would like to thank all the participants for the attendance and for their valuable contributions and discussions during the conference. Special thanks go to the minisymposium organizers, who made a large contribution to the conference, the chair persons, and all speakers.

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ISBN 978-3-540-69776-3 / BIC: PBW / SPRINGER NATURE: SCM13003

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