

**Springer books available as**Available from [springer.com/shop](http://springer.com/shop)Available from your library or  
▶ [springer.com/shop](http://springer.com/shop)

Printed eBook for just

▶ € | \$ 24.99

▶ [springer.com/mycopy](http://springer.com/mycopy)**Lecture Notes in Geosystems Mathematics and Computing**

Series Editors: W. Freeden, M.Z. Nashed, O. Scherzer

The *Lecture Notes in Geosystems Mathematics and Computing* series showcases topics of current interest that lie at the interface of the geosciences, mathematics, and observational and computational sciences. Titles may present new results or novel perspectives on existing areas of research, or serve as extended surveys of certain topics.

Traditional lecture notes covering core concepts for graduate and doctoral students are also included, as are titles that are based on expansions of outstanding PhD theses. Typically, titles address either mathematical and computational concepts and techniques – such as inverse problems, applied harmonic analysis, numerical simulation, and data analysis – or focus on practical applications in such areas as gravitation, climate modeling, seismology, geomechanics/dynamics, and satellite technology.

All manuscripts are peer-reviewed to meet the highest standards of scientific literature.

Interested authors may submit proposals by email to the series editors or to the relevant Birkhäuser editor listed under "Contacts."

Series Editors:

- Willi Freeden, University of Kaiserslautern, Kaiserslautern, Germany
- M. Zuhair Nashed, University of Central Florida, Orlando, FL, USA
- O. Scherzer, University of Vienna, Vienna, Austria

Editorial Board:

- Hans-Peter Bunge, Munich University, Germany
- Yalchin Efendiev, Texas A&M University, College Station, TX, USA
- Bulent Karasozen, Middle East Technical University, Ankara, Turkey
- Volker Michel, University of Siegen, Germany
- Tarje Nissen-Meyer, University of Oxford, UK
- Nils Olsen, Technical University of Denmark, Kongens Lyngby, Denmark
- Helmut Schaeben, Technical University Bergakademie Freiberg, Germany
- Frederik J. Simons, Princeton University, Princeton, NJ, USA
- Thomas Sonar, Technical University of Braunschweig, Germany
- Peter J.G. Teunissen, Delft University of Technology, The Netherlands and Curtin University of Technology, Perth, Australia
- Johannes Wicht, Max Planck Institute for Solar System Research, Göttingen, Germany

**Recently published:**

C. Blick, W. Freeden, M.Z. Nashed, H. Nutz, M. Schreiner

**Inverse Magnetometry**

Mollifier Magnetization Distribution from Geomagnetic Field Data

M. Richter

**Inverse Problems**

Basics, Theory and Applications in Geophysics

**Submission information at the [series homepage](http://series.homepage) and [springer.com/authors](http://springer.com/authors)**

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