

LECTURE NOTES IN EARTH SCIENCES

This series reports new developments in research and teaching in the entire field of earth sciences – quickly, informally, and at a high level. The timeliness of a manuscript is more important than its form, which may be unfinished or tentative. The type of material considered for publication includes

- drafts of original papers or monographs,
- technical reports of high quality and broad interest,
- advanced-level lectures,
- reports of meetings, provided they are of exceptional interest and focused on a single topic.

Huilin Xing
Advances in Geocomputing

This book provides a concise overview of the recent development in geocomputing, which covers the advanced computational theory, model construction, results visualization, high performance software development on supercomputers, and their applications in simulating geodynamics, crustal dynamics, earthquakes, tsunami and rock physics spanning different temporal and spatial scales of geosciences. The book is composed of 8 chapters written by 35 authors from 6 countries – Australia, China, Germany, Japan, Switzerland and the United States, which reflected the current state-of-the-art achievements and the future research direction in the field.

A DVD-ROM is attached together with this book for the image and animation files of the amazing simulation results.

The scientists, researchers and graduate students in geophysics, geology, geochemistry, high performance computing as well as environmental and mining engineers will benefit from this book, especially in the advanced geocomputing and its applications.



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System Requirements:

Windows XP SP 2 or later
Windows media player 10.x
QuickTime 7.x
Adobe Acrobat Reader 6.x or later
At least 1GHz, 512 MB RAM recommended
DVD-drive

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Advances in Geocomputing



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