



# Modeling Uncertainty in the Earth Sciences

By Professor Jef Caers

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## Modeling Uncertainty in the Earth Sciences By Professor Jef Caers

*Modeling Uncertainty in the Earth Sciences* highlights the various issues, techniques and practical modeling tools available for modeling the uncertainty of complex Earth systems and the impact that it has on practical situations. The aim of the book is to provide an introductory overview which covers a broad range of tried-and-tested tools. Descriptions of concepts, philosophies, challenges, methodologies and workflows give the reader an understanding of the best way to make decisions under uncertainty for Earth Science problems.

The book covers key issues such as: Spatial and time aspect; large complexity and dimensionality; computation power; costs of 'engineering' the Earth; uncertainty in the modeling and decision process. Focusing on reliable and practical methods this book provides an invaluable primer for the complex area of decision making with uncertainty in the Earth Sciences.

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## Modeling Uncertainty in the Earth Sciences By Professor Jef Caers Bibliography

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### Editorial Review

#### Review

“This is an outstanding contribution to the current literature, particularly since this book is aimed at an audience of young researchers and modelers that may just be starting their careers.” (*Mathematical Geoscience*, 29 November 2012)

“Overall, I consider this book to be a good addition to a rather limited choice of books for teaching an introductory course on modeling uncertainty in the Earth and environmental sciences. As the author points out in the preface of the book, this is not an encyclopedia on modeling uncertainty, but rather an introduction to the topic that can lead the reader to deeper pursuits on modeling uncertainty.” (*Bulletin of the American Meteorological Society*, 1 October 2012)

“The book, *Modeling Uncertainty in the Earth Sciences*, can be of great use for anyone involved with making decisions in Earth sciences. It gives a solid overview on how decisions in Earth Science can be improved by explicit uncertainty modeling.” (*Environmental Earth Science*, 1 October 2012)

#### From the Back Cover

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- First comprehensive book to present the uncertainties inherent in modeling for the Earth science community
- Full colour throughout
- Includes case study examples for greater clarity
- Geo-engineering focus
- Provides an accessible introduction to modeling uncertainty in the Earth Sciences
- Includes established tools as well as novel techniques developed by the author
- Companion website available with free software and examples
- Avoids complex mathematics for enhanced user-friendly approach

#### Companion Website

[www.wiley.com/go/caers/modeling](http://www.wiley.com/go/caers/modeling)

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#### **Marie Brenneman:**

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