



# Geostatistics: Modeling Spatial Uncertainty

By Jean-Paul Chilès, Pierre Delfiner

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**Geostatistics: Modeling Spatial Uncertainty** By Jean-Paul Chilès, Pierre Delfiner

Praise for the First Edition

"... a readable, comprehensive volume that ... belongs on the desk, close at hand, of any serious researcher or practitioner." —Mathematical Geosciences

The state of the art in geostatistics

Geostatistical models and techniques such as kriging and stochastic multi-realizations exploit spatial correlations to evaluate natural resources, help optimize their development, and address environmental issues related to air and water quality, soil pollution, and forestry. *Geostatistics: Modeling Spatial Uncertainty, Second Edition* presents a comprehensive, up-to-date reference on the topic, now featuring the latest developments in the field.

The authors explain both the theory and applications of geostatistics through a unified treatment that emphasizes methodology. Key topics that are the foundation of geostatistics are explored in-depth, including stationary and nonstationary models; linear and nonlinear methods; change of support; multivariate approaches; and conditional simulations. The Second Edition highlights the growing number of applications of geostatistical methods and discusses three key areas of growth in the field:

- New results and methods, including kriging very large datasets; kriging with outliers; nonseparable space-time covariances; multipoint simulations; pluri-gaussian simulations; gradual deformation; and extreme value geostatistics
- Newly formed connections between geostatistics and other approaches such as radial basis functions, Gaussian Markov random fields, and data assimilation
- New perspectives on topics such as collocated cokriging, kriging with an external drift, discrete Gaussian change-of-support models, and simulation algorithms

Geostatistics, Second Edition is an excellent book for courses on the topic at the graduate level. It also serves as an invaluable reference for earth scientists, mining and petroleum engineers, geophysicists, and environmental statisticians who collect and analyze data in their everyday work.

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**Geostatistics: Modeling Spatial Uncertainty** By Jean-Paul Chilès, Pierre Delfiner **Bibliography**

- Sales Rank: #1056067 in Books
- Published on: 2012-03-26
- Original language: English

- Number of items: 1
- Dimensions: 9.40" h x 1.70" w x 6.40" l, 3.00 pounds
- Binding: Hardcover
- 734 pages

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### Editorial Review

#### Review

“All who aspire to geostatistical competence should have this book to hand.” (*European Journal of Soil Science*, 1 April 2013)

“In summary, a worthwhile investment.” (*Zentralblatt MATH*, 1 May 2013)

“Summarizing, Chilès and Delfiner’s book certainly deserves recommendation to anyone interested in geostatistics, either as a geostatistician or as a researcher in modeling spatial uncertainty.” (*Computers & Geosciences*, 1 February 2013)

#### From the Back Cover

A novel, practical approach to modeling spatial uncertainty.

This book deals with statistical models used to describe natural variables distributed in space or in time and space. It takes a practical, unified approach to geostatistics-integrating statistical data with physical equations and geological concepts while stressing the importance of an objective description based on empirical evidence. This unique approach facilitates realistic modeling that accounts for the complexity of natural phenomena and helps solve economic and development problems-in mining, oil exploration, environmental engineering, and other real-world situations involving spatial uncertainty.

Up-to-date, comprehensive, and well-written, *Geostatistics: Modeling Spatial Uncertainty* explains both theory and applications, covers many useful topics, and offers a wealth of new insights for nonstatisticians and seasoned professionals alike. This volume:

- \* Reviews the most up-to-date geostatistical methods and the types of problems they address.
- \* Emphasizes the statistical methodologies employed in spatial estimation.
- \* Presents simulation techniques and digital models of uncertainty.
- \* Features more than 150 figures and many concrete examples throughout the text.
- \* Includes extensive footnoting as well as a thorough bibliography.

*Geostatistics: Modeling Spatial Uncertainty* is the only geostatistical book to address a broad audience in both industry and academia. An invaluable resource for geostatisticians, physicists, mining engineers, and earth science professionals such as petroleum geologists, geophysicists, and hydrogeologists, it is also an excellent supplementary text for graduate-level courses in related subjects.

#### About the Author

Jean-Paul Chilès is Deputy Director of the Center of Geosciences and Geoengineering at MINES ParisTech, France.

Pierre Delfiner is Principal of PetroDecisions, a consulting firm based in Paris, France.

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**Paul Cockrell:**

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