Multivariate Geostatistics: An Introduction with Applications

By Hans Wackernagel

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This fully revised third edition introduces geostatistics by emphasising the multivariate aspects for scientists, engineers and statisticians. Geostatistics offers a variety of models, methods and techniques for the analysis, estimation and display of multivariate data distributed in space or time. The text contains a brief review of statistical concepts, a detailed introduction to linear geostatistics, and an account of 3 basic methods of multivariate analysis. Applications from different areas of science, as well as exercises with solutions, are provided to help convey the general ideas. The introductory chapter has been divided into two separate sections for clarity. The final section deals with non-stationary geostatistics.

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Editorial Review

Review

SOME PRAISE FOR PREVIOUS EDITIONS:

"If you do geostatistics, you certainly should own [this book], because there are no competitors…"
–TECHNOMETRICS

"This is an introductory book on geostatistics (spatial statistics) with an emphasis on multivariate analysis of spatially indexed data. Explanations are intuitive, with graphical interpretations included where possible. Additionally, mathematical relationships are explained with uncommon clarity."
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"This book is an excellent modern introduction to geostatistics, which is one of the main branches of spatial statistics [...] this is a fine book for students of statistics, statisticians and well-informed engineers and geologists."
–BIOMETRICAL JOURNAL

"For a physical geodesist ... it is both informative and beneficial to learn about these marvelous techniques which have so much in common with the applied methods of our branch of science. What a great source of inspiration!"
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"... This book is an insightful introduction to linear geostatistics in general and multivariate geostatistics in particular, and provides a springboard to further study and research in this very interesting area."
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``Very often, comparisons are made between least squares prediction and collocation with kriging. [The book] is a must for all those scientists and engineers who want to know the similarities of both techniques applied to geosciences."
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From the Back Cover

The third edition of this very successful text book provides an introduction to geostatistics stressing the multivariate aspects for scientists, engineers or statisticians. Geostatistics offers a variety of models, methods and techniques for the analysis, estimation and display of multivariate data distributed in space or time. This book presents a brief review of statistical concepts, a detailed introduction to linear geostatistics, and an account of three methods of multivariate analysis. Moreover, it contains an advanced presentation of linear models for mulitvariate spatial or temporal data, of nonlinear models and methods for selection problems with change of support, as well as an introduction to non-stationary geostatistics with special focus on the external drift method. Applications from very different areas of science as well as exercices with solutions are provided to help convey the general ideas.

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