

About the Book

This book has been designed to serve as a textbook for post-graduate students and research workers in earth science who require a background of and a feel for statistics and the theory of regionalized variables. This new edition has been completely revised to reflect the notable development in geostatistics: concept- and technique-wise. Chapter 1 has been expanded and incorporation more details on sampling and sampling designs. Chapter 2 and 5 have been extensively revised and a new chapter "Introduction to advanced geostatistics" has been added. Also new are the "review questions" at the end of each chapter and the computer codes in the CD- Rom.

Contents:

- 1. Statistical methods in earth science*
- 2. Univariate statistical methods, frequency analysis and simulation*
- 3. Some statistical distributions*
- 4. Stochastic modeling (Time series analysis) and forecasting*
- 5. Concepts of regionalized variable and variogram modeling*
- 6. Regularized models, volume-variance relationships and economics*
- 7. The concepts of dispersion, extension and estimation variances*
- 8. Kriging variance and kriging procedure*
- 9. Introduction to advanced geostatistics*
- 10. Computer software*