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From A. R. H. Swan & M. Sandilands, Introduction to Geological Data Analysis Blackwell Science Ltd., 1995.
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A measurement is precise if repeated measurements

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Introduction to geological data analysis. This edition published in 1995 by Blackwell Science in Oxford, . Cambridge, Mass., USA.

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This course is an introductory class on how to quantitatively analyze data in the geosciences. Its purpose is to present the fundamentals of exploratory data analysis, elementary probability theory and statistics, interpolation, curve fitting, regression, time-series (spectral) analysis, and analysis of directional data (e.g., fault strikes, paleomagnetic field directions),.

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Although pollen grains in the atmosphere are relatively small in number they can cause an allergic response in susceptible humans. The allergenic content of the atmosphere varies according to season, climate, geography and vegetation.

Knowledge of the pollen seasons in different countries is necessary to understand the appearance of allergic symptoms. This text contains contributions from over 70 authors, working throughout Europe, on pollen and pollen allergy.

MATLAB is used in a wide range of applications in geosciences, such as image processing in remote sensing, generation and processing of digital elevation

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models and the analysis of time series. This book introduces basic methods of data analysis in geosciences using MATLAB. The text includes a brief description of each method and numerous examples demonstrating how MATLAB can be used on data sets from earth sciences. All MATLAB recipes can be easily modified in order to analyse the reader's own data sets.

Introduces methods of data analysis in geosciences using MATLAB such as basic statistics for univariate, bivariate and multivariate datasets, jackknife and bootstrap resampling schemes, processing of digital elevation models, gridding and contouring,

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geostatistics and kriging, processing and georeferencing of satellite images, digitizing from the screen, linear and nonlinear time-series analysis and the application of linear time-invariant and adaptive filters. Includes a brief description of each method and numerous examples demonstrating how MATLAB can be used on data sets from earth sciences.

Data-driven analytics is enjoying unprecedented popularity among oil and gas professionals. Many reservoir engineering problems associated with geological storage of CO₂ require the development of numerical reservoir simulation models. This book is the first to examine the contribution of artificial

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intelligence and machine learning in data-driven analytics of fluid flow in porous environments, including saline aquifers and depleted gas and oil reservoirs. Drawing from actual case studies, this book demonstrates how smart proxy models can be developed for complex numerical reservoir simulation models. Smart proxy incorporates pattern recognition capabilities of artificial intelligence and machine learning to build smart models that learn the intricacies of physical, mechanical and chemical interactions using precise numerical simulations. This ground breaking technology makes it possible and practical to use high fidelity, complex numerical reservoir simulation models in the design, analysis

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and optimization of carbon storage in geological formations projects.

When your environmental project reaches the point where the amount of data seems overwhelming, you will need a robust tool to help you manage it. Written by a recognized expert and software author with over 25 years of industry experience, *Relational Management and Display of Site Environmental Data* begins with an overview of site data management concepts, then progresses through relational data management theory, the design of the database tool, and implementing a data management system. It includes detailed information on data output including

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mapping and GIS applications, practical suggestions about working with laboratories, and concludes with pitfalls, horror stories, and successes in site data management. Current topics such as Internet data delivery and eXtensible Markup Language (XML) are also covered. The text provides you with the skills needed to effectively implement and operate an environmental data management system. The concepts covered can be applied to any system, from stand-alone through client-server to Web-based. Relational Management and Display of Site Environmental Data combines the fundamentals of data management and display with the author's many years of experience to help you create your own data

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management system or make a better-informed decision when selecting a commercial solution.

Since Karl Pearson wrote his paper on spurious correlation in 1897, a lot has been said about the statistical analysis of compositional data, mainly by geologists such as Felix Chayes. The solution appeared in the 1980s, when John Aitchison proposed to use logratios. Since then, the approach has seen a great expansion, mainly building on the idea of the 'natural geometry' of the sample space. Statistics is expected to give sense to our perception of the natural scale of the data, and this is made possible for compositional data using logratios. This publication

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will be a milestone in this process.

Most geoscientists are aware of recent IT developments, but cannot spend time on obscure technicalities. Few have considered their implications for the science as a whole. Yet the information industry is moving fast: electronic delivery of hyperlinked multimedia; standards to support interdisciplinary and geographic integration; new models to represent and visualize our concepts, and control and manage our activities; plummeting costs that force the pace. To stay on course, the scientist needs a broad appreciation of the complex and profound interactions of geoscience and IT, not

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previously reviewed in a single work. The book brings together ideas from many sources, some probably unfamiliar, that bear on the geoscience information system. It encourages readers to give thought to areas that, for various reasons, they have taken for granted, and to take a view on forces affecting geoscience, the consequences for themselves and their organisations, and the need to reconsider, adapt and rebuild. Practicing geoscientists with a general interest in how IT will affect their work and influence future directions of the science; geoscientists familiar with IT applications in their own specialist field who need a broader perspective; and students or educators specializing in IT applications in geoscience

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who require a top-down overview of their subject will find this title valuable. The IT background from this book should help geoscientists build a strategy for the new century.

This book describes the application of modern information technology to reservoir modeling and well management in shale. While covering Shale Analytics, it focuses on reservoir modeling and production management of shale plays, since conventional reservoir and production modeling techniques do not perform well in this environment. Topics covered include tools for analysis, predictive modeling and optimization of production from shale in the presence

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of massive multi-cluster, multi-stage hydraulic fractures. Given the fact that the physics of storage and fluid flow in shale are not well-understood and well-defined, Shale Analytics avoids making simplifying assumptions and concentrates on facts (Hard Data - Field Measurements) to reach conclusions. Also discussed are important insights into understanding completion practices and re-frac candidate selection and design. The flexibility and power of the technique is demonstrated in numerous real-world situations.

Without proper hydraulic fill and suitable specialised equipment, many major infrastructure projects such

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as ports, airports, roads, industrial or housing projects could not be realised. Yet comprehensive information about hydraulic fill is difficult to find. This thoroughly researched book, written by noted experts, takes the reader step-by-step t

The forensic potential of geological and soil evidence has been recognized for more than a century, but recently these types of evidence are used much more widely as an investigative intelligence tool and as evidence in court. There is, however, still a poor understanding of the potential value and the limitations of geological and soil evidence among the forensic science and wider legal communities.

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Geological and Soil Evidence: Forensic Applications provides an authoritative introduction to the nature and properties of geological and soil materials that may be used as trace evidence and the techniques used to analyze and evaluate them. It emphasizes the use of geoscience in forensic analyses, including geophysical, meteorological, and geomorphological data. This inclusive book covers material types and analytical strategies used in examining both the common components of geological evidence, such as rocks, dusts, minerals, spores, and microfossils, as well as anthropogenic particles like pottery and brick. It instructs on particle characterization based on physical, chemical, and mineralogical traits such as

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color, shape, density, and elemental and isotopic composition. It also explains sampling and handling procedures particular to criminalistics and introduces analysis, evaluation, and decision-making practices based on statistical significance and the weighing of different types of evidence. Discussions of basic principles are supported and enhanced with numerous case studies that tie methods of analysis to specific forensic applications. Examples are drawn from the author's own experience as well as the wider scientific literature. Accessible enough for readers with limited scientific knowledge and informative enough for scientists interested in forensic applications, Geological and Soil Evidence: Forensic

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Applications is a comprehensive reference for the current knowledge of forensic geology and soil science.

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