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The International Conference of Computational Methods in Sciences and Engineering (ICCMSE) is unique in its kind. It regroups original contributions from all fields of the traditional Sciences, Mathematics, Physics, Chemistry,

Page 2/172

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Biology, Medicine and all branches of Engineering. The aim of the conference is to bring together computational scientists. Published in 2002, the first edition of Geostatistical Reservoir Modeling brought the practice of petroleum geostatistics into a coherent framework, focusing on tools, techniques, examples, and guidance. It

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emphasized the interaction between geophysicists, geologists, and engineers, and was received well by professionals, academics, and both graduate and undergraduate students. In this revised second edition, Deutsch collaborates with co-author Michael Pyrcz to provide an expanded (in coverage and format), full

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color illustrated, more comprehensive treatment of the subject with a full update on the latest tools, methods, practice, and research in the field of petroleum Geostatistics. Key geostatistical concepts such as integration of geologic data and concepts, scale considerations, and uncertainty models receive greater

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attention, and new comprehensive sections are provided on preliminary geological modeling concepts, data inventory, conceptual model, problem formulation, large scale modeling, multiple point-based simulation and event-based modeling. Geostatistical methods are extensively illustrated through enhanced schematics,

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work flows and examples with discussion on method capabilities and selection. For example, this expanded second edition includes extensive discussion on the process of moving from an inventory of data and concepts through conceptual model to problem formulation to solve practical reservoir problems. A greater

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number of examples are included, with a set of practical geostatistical studies developed to illustrate the steps from data analysis and cleaning to post-processing, and ranking. New methods, which have developed in the field since the publication of the first edition, are discussed, such as models for integration of diverse data

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sources, multiple point-based simulation,
event-based simulation, spatial bootstrap
and methods to summarize geostatistical
realizations.

Over the last two decades, earth modeling
has become a major investigative tool for
evaluating the potential of hydrocarbon
reservoirs. Earth modelling must now face

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new challenges since petroleum exploration no longer consists in only investigating newly identified resources, but also in re-evaluating the potential of previously investigated reservoirs in the light of new prospecting data and of revised interpretations. Earth models incorporate a variety of different

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interpretations made on various types of data at successive steps of the modeling process. However, current modeling procedures provide no way to link a range of data and interpretations with a final earth model. For this reason, sharing and exchanging information about the model building process is at present a major

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difficulty. Recently, the term "Shared Earth Modeling" has been used for expressing the idea that earth models should be built in such a way that experts and end users can have access, at any time, to all the information incorporated into the model. This information does not only concern the data, but also the knowledge

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that geoscientists produce by interpreting these data. Accordingly, practical solutions must be studied for operating a knowledge-driven approach of Shared Earth Modeling. This is the goal of this book. This study of earth subsurface modeling is intended for several categories of readers. It concerns in the first place

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geologists, engineers and managers involved in the study and evaluation of subsurface reservoirs and hydrocarbon exploration. Relying on recent progress in various fields of computer sciences, the authors present innovative solutions for solving the critical issue of knowledge exchange at key steps of the modeling

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process. This book will also be of interest to researchers in computer science and, more generally, to engineers, researchers and students who wish to apply advanced knowledge-based techniques to complex engineering problems. Contents : Part I. Earth Models. 1. Earth models as subsurface representations. 2. Earth

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models for underground resource exploration and estimation. 3. Earth models used in petroleum industry: current practice and future challenges. Part II. Knowledge oriented solutions. 4. Knowledge based approach of a data intensive problem: seismic interpretation. 5. Individual surface representations and

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optimization. 6. Geological surface assemblage. 7. 3D Meshes for structural, stratigraphy and reservoir frameworks. 8. The data extension issue: geological constraints applied in geostatistical processes. Part III. Knowledge formalization. 9. Ontologies and their use for geological knowledge formalization.

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10. Ontologies for Interpreting
geochronological relationships. 11.
Building ontologies for analyzing data
expressed in natural language. 12.
Ontology-based rock description and
interpretation. Part IV. Knowledge
management & applications. 13. Ontology
integration and management within data

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intensive engineering systems. 14. Earth modeling using web services. 15. Full scale example of a knowledge-based method for building and managing an earth model. Part V. Conclusion. Appendix. Glossary.

This book covers methods of Mathematical Morphology to model and

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simulate random sets and functions (scalar and multivariate). The introduced models concern many physical situations in heterogeneous media, where a probabilistic approach is required, like fracture statistics of materials, scaling up of permeability in porous media, electron microscopy images (including

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multispectral images), rough surfaces, multi-component composites, biological tissues, textures for image coding and synthesis. The common feature of these random structures is their domain of definition in n dimensions, requiring more general models than standard Stochastic Processes. The main topics of the book

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cover an introduction to the theory of random sets, random space tessellations, Boolean random sets and functions, space-time random sets and functions (Dead Leaves, Sequential Alternate models, Reaction-Diffusion), prediction of effective properties of random media, and probabilistic fracture theories.

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Geostatistics for Environmental
Applications

Proceedings of the Fourth European
Conference on Geostatistics for
Environmental Applications held in
Barcelona, Spain, November 27-29, 2002
A User's Guide

Parallel Problem Solving from Nature □

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PPSN XVI

Volume 1 & 2

Handbook of Engineering Hydrology
(Three-Volume Set)

Knowledge Driven Solutions for Building
and Managing Subsurface 3D Geological
Models

The fourth edition of the European

Page 24/172

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*Conference on Geostatistics for
Environmental Applications (geoENV IV)*
took place in Barcelona, November 27-29,
2002. As a proof that there is an
increasing interest in environmental issues
in the geostatistical community, the
conference attracted over 100
participants, mostly Europeans (up to 10

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European countries were represented), but also from other countries in the world.

Only 46 contributions, selected out of around 100 submitted papers, were invited to be presented orally during the conference. Additionally 30 authors were invited to present their work in poster format during a special session. All oral

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and poster contributors were invited to submit their work to be considered for publication in this Kluwer series. All papers underwent a reviewing process, which consisted on two reviewers for oral presentations and one reviewer for posters. The book opens with one keynote paper by Philippe Naveau. It is followed

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by 40 papers that correspond to those presented orally during the conference and accepted by the reviewers. These

papers are classified according to their main topic. The list of topics show the diversity of the contributions and the fields of application. At the end of the book, summaries of up to 19 poster

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presentations are added. The geoENV conferences stress two issues, namely geostatistics and environmental applications. Thus, papers can be classified into two groups.

This special volume offers a snapshot of the latest developments in mineral exploration, in particular, geophysical,

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geochemical, and computational methods.

It reflects the cutting-edge applications of

geophysics and geochemistry, as well as

novel technologies, such as in artificial

intelligence and hyperspectral

exploration, methods that have profoundly

changed how exploration is conducted.

This special volume is a representation of

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*these cutting-edge and pioneering methods
to consider and conduct exploration, and
should serve both as a valuable
compendium of the most innovative
exploration methodologies available and
as a foreshadowing of the form of future
exploration. As such, this volume is of
significant importance and would be*

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*useful to any exploration geologist and
company*

*While most books examine only the
classical aspects of hydrology, this three-
volume set covers multiple aspects of
hydrology. It examines new approaches,
addresses growing concerns about
hydrological and ecological connectivity,*

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*and considers the worldwide impact of
climate change. It also provides updated
material on hydrological science and
engine*

*Handbook of Porous Media, Third Edition
offers a comprehensive overview of the
latest theories on flow, transport, and heat-
exchange processes in porous media. It*

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also details sophisticated porous media models which can be used to improve the accuracy of modeling in a variety of practical applications. Featuring contributions from leading experts in their respective fields, this book: Presents the general characteristics and modeling of porous media, such as multiscale

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*modeling of porous media, two-phase
flow, compressible porous media, and
dispersion in porous media* Addresses the
*fundamental topics of transport in porous
media, including theoretical models of
transport, membrane transport
phenomena, modeling transport
properties, and transport in biomedical*

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applications Describes several important aspects of turbulence in porous media, including advances in modeling

turbulence phenomena in heterogeneous porous media Explores heat transfer of nanofluids as well as thermal transport in porous media, including forced convection, double diffusive convection,

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high-heat flux applications, and thermal behavior of poroelastic media Covers geological applications in porous media, including modeling and experimental challenges related to oil fields, CO₂ migration, groundwater flows, and velocity measurements Discusses relevant attributes of experimental work or

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numerical techniques whenever applicable
Paving the way for the establishment of
multidisciplinary areas of research,
Handbook of Porous Media, Third Edition
further enhances cooperation between
engineers and scientists by providing a
valuable reference for addressing some of
the most challenging issues in engineering

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*and the hydrogeological, biological, and
biomedical sciences.*

*15th International Conference, KES 2011,
Kaiserslautern, Germany, September
12-14, 2011, Proceedings, Part II
Modeling Spatial Uncertainty
Applied Geostatistics with SGeMS
Contributions in Honor of Georges*

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*Matheron in the Fields of Geostatistics,
Random Sets and Mathematical
Morphology* 2010 Paperback

*Morphological Models of Random
Structures*

*Mathematical and Numerical Modeling in
Porous Media*

16th International Conference, PPSN

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2020, Leiden, The Netherlands, September
5-9, 2020, Proceedings, Part I

Environmental Soil-Landscape
Modeling: Geographic Information
Technologies and Pedometrics
presents the latest methodological
developments in soil-landscape

Read Online Geostatistical Simulation Models And Algorithms Softcover Reprint Of Edition By Lantuejoul Christian 2010 Paperback modeling. It analyzes many recently developed measurement tools, and explains computer-related and pedometric techniques that are invaluable in the modeling process. This volume provi
This Open Access handbook

Read Online Geostatistical Simulation Models And Algorithms Softcover Reprint Of Edition By Lantuejoul Christian 2010 Paperback published at the IAMG's 50th anniversary, presents a compilation of invited path-breaking research contributions by award-winning geoscientists who have been instrumental in shaping the IAMG. It contains 45 chapters that are

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categorized broadly into five parts
(i) theory, (ii) general applications,
(iii) exploration and resource
estimation, (iv) reviews, and (v)
reminiscences covering related
topics like mathematical
geosciences, mathematical

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morphology, geostatistics, fractals
and multifractals, spatial statistics,
multipoint geostatistics,
compositional data analysis,
informatics, geocomputation,
numerical methods, and chaos
theory in the geosciences.

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The science of geostatistics is now being employed in an increasing number of disciplines in environmental sciences. This book surveys the latest applications of Geostatistics in a broad spectrum of fields including air quality,

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climatology, ecology, groundwater hydrology, surface hydrology, oceanography, soil contamination, epidemiology and health, natural hazards, and remote sensing. The scope of the symposium covers all major aspects of system

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identification, experimental modelling, signal processing and adaptive control, ranging from theoretical, methodological and scientific developments to a large variety of (engineering) application areas. It is the intention of the

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organizers to promote SYSID 2003 as a meeting place where scientists and engineers from several research communities can meet to discuss issues related to these areas. Relevant topics for the symposium program include:

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Identification of linear and
multivariable systems, identification
of nonlinear systems, including
neural networks, identification of
hybrid and distributed systems,
Identification for control,
experimental modelling in process

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control, vibration and modal
analysis, model validation,
monitoring and fault detection,
signal processing and
communication, parameter
estimation and inverse modelling,
statistical analysis and uncertainty

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bounding, adaptive control and data-based controller tuning, learning, data mining and Bayesian approaches, sequential Monte Carlo methods, including particle filtering, applications in process control systems, motion control

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systems, robotics, aerospace
systems, bioengineering and
medical systems, physical
measurement systems, automotive
systems, econometrics,
transportation and communication
systems *Provides the latest

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research on System Identification
*Contains contributions written by experts in the field *Part of the IFAC Proceedings Series which provides a comprehensive overview of the major topics in control engineering.

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Environmental Soil-Landscape
Modeling
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Hydrology
Geostatistical Applications for
Precision Agriculture

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International Conference of
Computational Methods in
Sciences and Engineering
(ICCMSE 2004)
Applied Mining Geology
The four-volume set LNAI

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6881-LNAI 6884 constitutes the
refereed proceedings of the 15th
International Conference on
Knowledge-Based Intelligent
Information and Engineering
Systems, KES 2011, held in
Kaiserslautern, Germany, in

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September 2011. Part 2: The total of 244 high-quality papers presented were carefully reviewed and selected from numerous submissions. The 70 papers of Part 2 are organized in topical sections on web intelligence, text and

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multimedia mining and retrieval,
intelligent tutoring systems and e-
learning environments, other / misc.
intelligent systems topics, methods
and techniques of artificial and
computational intelligence in
economics, finance and decision

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making, workshop on seamless
integration of semantic technologies
in computer-supported office work
(sistcow), innovations in chance
discovery, advanced knowledge-
based systems, recent trends in
knowledge engineering, smart

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systems, and their applications.

The aim of this book is to bring together a series of contributions from experts in the field to cover the major aspects of the application of geostatistics in precision agriculture. The focus will not be on theory,

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although there is a need for some theory to set the methods in their appropriate context. The subject areas identified and the authors selected have applied the methods in a precision agriculture framework. The papers will reflect the wide

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range of methods available and how they can be applied practically in the context of precision agriculture.

This book is likely to have more impact as it becomes increasingly possible to obtain data cheaply and more farmers use onboard digital

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maps of soil and crops to manage their land. It might also stimulate more software development for geostatistics in PA.

Simulations are the fastest developing branch in geostatistics, and simulating the acies inside

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reservoirs and ore bodies is the most exciting part of this. Several methods have been developed to do this (sequential indicator simulations, Boolean methods, Markov chains and plurigaussian simulations). This book focusses on

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the last type of simulation. It develops the theory required to understand the method together and presents practical examples of applications in mining and petroleum, plus tutorial examples.

An accompanying CD-ROM

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featuring demonstration software
and color images complements the
printed book.

This book provides a foundation for
modern applied ecology. Much of
current ecology research and
conservation addresses problems

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across landscapes and regions, focusing on spatial patterns and processes. This book is aimed at teaching fundamental concepts and focuses on learning-by-doing through the use of examples with the software R. It is intended to provide

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an entry-level, easily accessible
foundation for students and
practitioners interested in spatial
ecology and conservation.

Statistical Data Science
Fifty Years of IAMG
Encyclopedia of Geology

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Shared Earth Modeling
Geostatistical Simulations
Geostatistical Simulation

geoENV IV — Geostatistics for
Environmental Applications

*When this two-day meeting was proposed, it
was certainly not conceived as a celebration,*

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much less as a party. However, on reflection, this might have been a wholly appropriate gesture because geostatistical simulation came of age this year: it is now 21 years since it was first proposed and implemented in the form of the turning bands method. The impetus for the original development was the mining industry,

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principally the problems encountered in mine planning and design based on smoothed estimates which did not reflect the degree of variability and detail present in the real, mined values. The sustained period of development over recent years has been driven by hydrocarbon applications. In addition to the original turning bands

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method there are now at least six other established methods of geostatistical simulation. Having reached adulthood, it is entirely appropriate that geostatistical simulation should now be subjected to an intense period of reflection and assessment. That we have now entered this period was evident in many of the papers and much of

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the discussion at the Fontainebleau meeting.

Many questions were clearly articulated for

the first time and, although many of them

were not unambiguously answered, their

presentation at the meeting and publication

in this book will generate confirmatory

studies and further research.

The Stanford Geostatistical Modeling

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Software (SGeMS) is an open-source computer package for solving problems involving spatially related variables. It provides geostatistics practitioners with a user-friendly interface, an interactive 3-D visualization, and a wide selection of algorithms. This practical book provides a step-by-step guide to using SGeMS

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algorithms. It explains the underlying theory, demonstrates their implementation, discusses their potential limitations, and helps the user make an informed decision about the choice of one algorithm over another. Users can complete complex tasks using the embedded scripting language, and new algorithms can be developed and

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integrated through the SGeMS plug-in mechanism. SGeMS was the first software to provide algorithms for multiple-point statistics, and the book presents a discussion of the corresponding theory and applications. Incorporating the full SGeMS software (now available from www.cambridge.org/9781107403246), this

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*book is a useful user-guide for Earth
Science graduates and researchers, as well
as practitioners of environmental mining
and petroleum engineering.*

*Porous media are broadly found in nature
and their study is of high relevance in our
present lives. In geosciences porous media
research is fundamental in applications to*

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*aquifers, mineral mines, contaminant
transport, soil remediation, waste storage,
oil recovery and geothermal energy deposits.*

*Despite their importance, there is as yet no
complete*

*This book contains accepted papers
presented at SOCO 2020 conference held in
the beautiful and historic city of Burgos*

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(Spain), in September 2020. Soft computing
represents a collection or set of
computational techniques in machine
learning, computer science and some
engineering disciplines, which investigate,
simulate, and analyze very complex issues
and phenomena. After a through peer-
review process, the SOCO 2020

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International Program Committee selected 83 papers which are published in these conference proceedings and represents an acceptance rate of 35%. Due to the COVID-19 outbreak, the SOCO 2020 edition was blended, combining on-site and on-line participation. In this relevant edition a special emphasis was put on the

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organization of special sessions. Eleven special session were organized related to relevant topics such as: Soft Computing Applications in Precision Agriculture, Manufacturing and Management Systems, Management of Industrial and Environmental Enterprises, Logistics and Transportation Systems, Robotics and

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*Autonomous Vehicles, Computer Vision,
Laser-Based Sensing and Measurement and
other topics such as Forecasting Industrial
Time Series, IoT, Big Data and Cyber
Physical Systems, Non-linear Dynamical
Systems and Fluid Dynamics, Modeling and
Control systems The selection of papers was
extremely rigorous in order to maintain the*

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high quality of SOCO conference editions and we would like to thank the members of the Program Committees for their hard work in the reviewing process. This is a crucial process to the creation of a high standard conference and the SOCO conference would not exist without their help.

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An Introduction with Applications

Multiple-point Geostatistics

Proceedings of the Geostatistical Simulation

Workshop, Fontainebleau, France, 27–28

May 1993

Applications to Porphyry Copper Deposits

Handbook of Porous Media

Novel Methods and Applications for

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*Mineral Exploration
Proceedings of the Fifth European
Conference on Geostatistics for
Environmental Applications*

This book provides a detailed overview of the operational principles of modern mining geology, which are presented as a good mix of theory and practice,

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allowing use by a broad range of specialists, from students to lecturers and experienced geologists. The book includes comprehensive descriptions of mining geology techniques, including conventional methods and new approaches. The attributes presented in the book can be used as

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a reference and as a guide by mining industry specialists developing mining projects and for optimizing mining geology procedures. Applications of the methods are explained using case studies and are facilitated by the computer scripts added to the book as Electronic Supplementary Material.

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This book contains selected contributions presented at the 10th International Geostatistics Congress held in Valencia from 5 to 9 September, 2016. This is a quadrennial congress that serves as the meeting point for any engineer, professional, practitioner or scientist

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working in geostatistics. The book contains carefully reviewed papers on geostatistical theory and applications in fields such as mining engineering, petroleum engineering, environmental science, hydrology, ecology, and other fields.

While most books examine only the

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classical aspects of hydrology, this three-volume set covers multiple aspects of hydrology, and includes contributions from experts from more than 30 countries. It examines new approaches, addresses growing concerns about hydrological and ecological connectivity, and considers

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the worldwide impact of climate
change

Encyclopedia of Geology, Second
Edition presents in six volumes state-
of-the-art reviews on the various
aspects of geologic research, all of
which have moved on considerably
since the writing of the first edition.

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New areas of discussion include extinctions, origins of life, plate tectonics and its influence on faunal provinces, new types of mineral and hydrocarbon deposits, new methods of dating rocks, and geological processes. Users will find this to be a fundamental resource for teachers and

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students of geology, as well as researchers and non-geology professionals seeking up-to-date reviews of geologic research. Provides a comprehensive and accessible one-stop shop for information on the subject of geology, explaining methodologies and technical jargon

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used in the field Highlights
connections between geology and
other physical and biological sciences,
tackling research problems that span
multiple fields Fills a critical gap of
information in a field that has seen
significant progress in past years
Presents an ideal reference for a wide

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range of scientists in earth and
environmental areas of study
Quantitative Geosciences: Data
Analytics, Geostatistics, Reservoir
Characterization and Modeling
Handbook of Mathematical
Geosciences
Principles, Methods, and Case

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Studies, Vol. II, AAPG Computer
Applications in Geology 5
System Identification 2003

Geostatistics

Stochastic Modeling with Training
Images

This book covers the main

Page 97/172

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***mining issues where
geostatistics, a discipline
founded in the 1960s to
study regionalized variables
measured at a limited
number of points in space, is
expected to play a role. Each***

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*chapter of the book is
associated with a stage of
the mining sequence,
including the interpretation
and geological modeling of
mineral deposits, evaluation
of in-situ and recoverable*

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***resources, long-term mine
planning, short-term
planning and ore control,
geotechnics, geometallurgy
and sampling. This work,
featuring more than 150
illustrations, avoids the***

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***traditional laborious and
crippling theoretical
treatment of geostatistics
and is systematically
oriented toward a practical
exhibition of the problems
and proposed solutions. The***

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***writing is fluid and intended
to involve the reader. The
book is the fruit of more
than 35 cumulative years of
applied research by the
authors, a professor at the
University of Chile and a***

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***researcher at Mines
ParisTech, carried out in
collaboration with the
Chilean company Codelco
since the late 1990s. Despite
focusing on copper porphyry
deposits, the generalization***

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*of the methods presented to
the entire mining industry is*

straightforward. The broad

range of problems

addressed, including

generally neglected

disciplines such as

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***geotechnics, geometallurgy
and sampling, and their
practical presentation make
this book unique and usable
by a very wide audience -
students, researchers,
geologists, engineers,***

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***geotechnicians and
metallurgists.***

***This book deals with the
estimation of natural
resources using the Monte
Carlo methodology. It
includes a set of tools to***

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*describe the morphological,
statistical and stereological
properties of spatial random
models. Furthermore, the
author presents a wide range
of spatial models, including
random sets and functions,*

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***point processes and object
populations applicable to the
geosciences. The text is
based on a series of courses
given in the USA and Latin
America to civil, mining and
petroleum engineers as well***

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*as graduate students in
statistics. It is the first book
to discuss the geostatistical
simulation techniques in
such a specific way.*

*A revised edition that
provides a full update on the*

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***most current methods, tools,
and research in petroleum
geostatistics.***

***Space, structure, and
randomness: these are the
three key concepts
underlying Georges***

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***Matheron's scientific work.
He first encountered them at
the beginning of his career
when working as a mining
engineer, and then they
resurfaced in fields ranging
from meteorology to***

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***microscopy. What could
these radically different
types of applications
possibly have in common?
First, in each one only a
single realisation of the
phenomenon is available for***

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study, but its features repeat themselves in space; second, the sampling pattern is rarely regular, and finally there are problems of change of scale. This volume is divided in three sections

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***on random sets, geostatistics
and mathematical
morphology. They reflect his
professional interests and
his search for underlying
unity. Some readers may be
surprised to find theoretical***

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***chapters mixed with applied
ones. We have done this
deliberately. GM always
considered that the
distinction between the
theory and practice was
purely academic. When GM***

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*tackled practical problems,
he used his skill as a
physicist to extract the
salient features and to select
variables which could be
measured meaningfully and
whose values could be*

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***estimated from the available
data. Then he used his
outstanding ability as a
mathematician to solve the
problems neatly and
efficiently. It was his
capacity to combine a***

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***physicist's intuition with a
mathematician's analytical
skills that allowed him to
produce new and innovative
solutions to difficult
problems. The book should
appeal to graduate students***

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***and researchers working in
mathematics, probability,
statistics, physics, spatial
data analysis, and image
analysis. In addition it will
be of interest to those who
enjoy discovering links***

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***between scientific
disciplines that seem
unrelated at first glance. In
writing the book the
contributors have tried to
put GM's ideas into
perspective. During his***

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*working life, GM was a
genuinely creative scientist.*

He developed innovative

concepts whose usefulness

goes far beyond the confines

of the discipline for which

they were originally

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*designed. This is why his
work remains as pertinent
today as it was when it was
first written.*

***Geographic Information
Technologies and
Pedometrics***

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***Space, Structure and
Randomness
Plurigaussian Simulations in
Geosciences
15th International
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Computing Models in***

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***Industrial and
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Modeling
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Intelligent Information and***

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*Instructs readers on how to use
methods of statistics and
experimental design with R
software Applied statistics covers*

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both the theory and the application of modern statistical and mathematical modelling techniques to applied problems in industry, public services, commerce, and research. It proceeds from a strong theoretical

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*background, but it is practically
oriented to develop one's ability to*

tackle new and non-standard

problems confidently. Taking a

practical approach to applied

statistics, this user-friendly guide

teaches readers how to use

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*methods of statistics and
experimental design without
going deep into the theory.*

*Applied Statistics: Theory and
Problem Solutions with R includes
chapters that cover R package
sampling procedures, analysis of*

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variance, point estimation, and more. It follows on the heels of Rasch and Schott's Mathematical Statistics via that book's theoretical background—taking the lessons learned from there to another level with this book's

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*addition of instructions on how to
employ the methods using R. But
there are two important chapters
not mentioned in the theoretical
back ground as Generalised
Linear Models and Spatial
Statistics. Offers a practical over*

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*theoretical approach to the
subject of applied statistics*

*Provides a pre-experimental as
well as post-experimental*

approach to applied statistics

Features classroom tested

material Applicable to a wide

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*range of people working in
experimental design and all
empirical sciences Includes 300
different procedures with R and
examples with R-programs for the
analysis and for determining
minimal experimental sizes*

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*Applied Statistics: Theory and
Problem Solutions with R will
appeal to experimenters,
statisticians, mathematicians, and
all scientists using statistical
procedures in the natural
sciences, medicine, and*

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psychology amongst others.

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that . . . belongs on the desk, close
at hand, of any serious researcher
or practitioner." —*Mathematical
Geosciences The state of the art in*

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*geostatistics Geostatistical models
and techniques such as kriging
andstochastic multi-realizations
exploit spatial correlations
toevaluate natural resources, help
optimize their development,
andaddress environmental issues*

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*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*

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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,

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*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*

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*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*

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*randomfields, and data
assimilation New perspectives on
topics such as collocated
cokriging, krigingwith an external
drift, discrete Gaussian change-of-
support models,and simulation
algorithms Geostatistics, Second*

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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

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*collect and analyze data in their
everyday work.*

*The return of the congress to
North America after 20 years of
absence could not have been in a
more ideal location. The beauty of
Banff and the many offerings of*

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*the Rocky Mountains was the
perfect background for a week of
interesting and innovative*

*discussions on the past, present
and future of geostatistics. The
congress was well attended with
approximately 200 delegates from*

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*19 countries across six continents.
There was a broad spectrum of
students and seasoned*

*geostatisticians who shared their
knowledge in many areas of study
including mining, petroleum, and
environmental applications. You*

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will find 119 papers in this two volume set. All papers were presented at the congress and have been peer-reviewed. They are grouped by the different sessions that were held in Banff and are in the order of

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presentation. These papers provide a permanent record of different theoretical perspectives from the last four years. Not all of these ideas will stand the test of time and practice; however, their originality will endure. The

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*practical applications in these
proceedings provide nuggets of
wisdom to those struggling to
apply geostatistics in the best
possible way. Students and
practitioners will be digging
through these papers for many*

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Industry
Geostatistics Valencia 2016
Stochastic Modeling and
Geostatistics*

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*Models and Algorithms
Multivariate Geostatistics*

This book consists of 44 technical papers presented at the Ninth International Geostatistics Congress held in Oslo, Norway in June 2012. The papers have been reviewed by a panel of specialists in Geostatistics. The book is divided into four

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main sections: Theory; Petroleum; Mining;
and Environment, Climate and Hydrology.

The first section focuses on new ideas of
general interest to many fields of
applications. The next sections are more
focused on the particular needs of the
particular industry or activity. Geostatistics
is vital to any industry dependent on natural

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resources. Methods from geostatistics are

used for estimating reserves, quantifying
economical risk and planning of future

industrial operations. Geostatistics is also an
important tool for mapping environmental
hazard and integrating climate data.

This fully revised third edition introduces
geostatistics by emphasising the multivariate

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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

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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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Of Earth science is becoming increasingly quantitative in the digital age. Quantification of geoscience and engineering problems underpins many of the applications of big data and artificial intelligence. This book presents quantitative geosciences in three parts. Part 1 presents data analytics using probability, statistical and machine-learning

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methods. Part 2 covers reservoir characterization using several geoscience disciplines: including geology, geophysics, petrophysics and geostatistics. Part 3 treats reservoir modeling, resource evaluation and uncertainty analysis using integrated geoscience, engineering and geostatistical methods. As the petroleum industry is

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heading towards operating oil fields digitally, a multidisciplinary skillset is a must for geoscientists who need to use data analytics to resolve inconsistencies in various sources of data, model reservoir properties, evaluate uncertainties, and quantify risk for decision making. This book intends to serve as a bridge for advancing the multidisciplinary

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integration for digital fields. The goal is to move beyond using quantitative methods individually to an integrated descriptive-quantitative analysis. In big data, everything tells us something, but nothing tells us everything. This book emphasizes the integrated, multidisciplinary solutions for practical problems in resource evaluation

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and field development.

The contributions in this book were presented at the Fourth International Geostatistics Congress held in Tr ó ia, Portugal, in September 1992. They provide a comprehensive account of the current state of the art of geostatistics, including recent theoretical developments and new

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applications. In particular, readers will find descriptions and applications of the more recent methods of stochastic simulation together with data integration techniques applied to the modelling of hydrocarbon reservoirs. In other fields there are stationary and non-stationary geostatistical applications to geology, climatology,

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pollution control, soil science, hydrology and human sciences. The papers also provide an insight into new trends in geostatistics particularly the increasing interaction with many other scientific disciplines. This book is a significant reference work for practitioners of geostatistics both in academia and industry.

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Applications with R
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constitutes the refereed
proceedings of the 16th
International Conference
on Parallel Problem
Solving from Nature,
PPSN 2020, held in
Leiden, The Netherlands,

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in September 2020. The
99 revised full papers
were carefully reviewed
and selected from 268
submissions. The topics
cover classical subjects
such as automated

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configuration; Bayesian-
and surrogate-assisted
optimization;
benchmarking and
performance measures;
combinatorial

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optimization; connection
between nature-inspired
optimization and
artificial intelligence;
genetic and evolutionary
algorithms; genetic
programming; landscape

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analysis; multiobjective
optimization; real-world
applications;
reinforcement learning;
and theoretical aspects
of nature-inspired
optimization.

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As an emerging
discipline, data science
broadly means different
things across different
areas. Exploring the
relationship of data
science with statistics,

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a well-established and
principled data-analytic
discipline, this book
provides insights about
commonalities in
approach, and
differences in emphasis.

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Featuring chapters from
established authors in
both disciplines, the
book also presents a
number of applications
and accompanying papers.
remove