

Compendium in Geology, Volume 2

# Recent Advances in **GEOMATHEMATICS**

An International Symposium

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*Sydney University*

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# Recent Advances In Geomathematics

**Willi Freeden, M. Zuhair  
Nashed, Thomas Sonar**



## **Recent Advances In Geomathematics:**

**Recent Advances in Geomathematics 550.0151 MER.** D. F. Merriam, **Recent Advances in geomathematics** Daniel Francis Merriam,1978 **Advances in Geophysics** ,1999-06-18 Advances in Geophysics Vol 40 systematically compares many of the currently used statistical approaches to time series analysis and modeling to evaluate each method s robustness and application to geophysical datasets This volume tackles the age old problem of how to evaluate the relative roles of deterministic versus stochastic processes signal vs noise in their observations The book introduces the fundamentals in sections titled 1 2 What is a Time Series and 1 3 How is a Time Series Quantified before diving into Spectral Analysis Semivariograms Rescaled Range Analysis and Wavelet Analysis The second half of the book applies their self affine analysis to a number of geophysical time series historical temperature records drought hazard assessment sedimentation in the context of hydrocarbon bearing strata variability of the Earth s magnetic field This volume explores in detail one of the main components of noise that of long range persistence or memory The first chapter is a broad summary of theory and techniques of long range persistence in time series the second chapter is the application of long range persistence to a variety of geophysical time series **Handbook of Mathematical Geosciences** B.S. Daya Sagar,Qiuming Cheng,Frits Agterberg,2018-06-25 This Open Access handbook 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 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 morphology geostatistics fractals and multifractals spatial statistics multipoint geostatistics compositional data analysis informatics geocomputation numerical methods and chaos theory in the geosciences **Geomathematical and Petrophysical Studies in Sedimentology** Dan Gill,Daniel F Merriam,2015-12-04 Computers Geology Volume 3 Geomathematical and Petrophysical Studies in Sedimentology presents a collection of papers concerned with interpretation of sediment properties from mechanical logs and seismic profiles This book covers stimulation of groundwater flow atmospheric conditions bed thickness and stratigraphic data Organized into 17 chapters this volume begins with an overview of the FORTRAN program designed to duplicate and simplify the mental processes that lead to an interpretation of a depositional setting This text then examines a simple stochastic sedimentation model of turbidite sequences that assumes a bed thickness corresponding to a waiting time between turbidity currents Other chapters consider the study of a system s response to different disturbances This book discusses as well the Monte Carlo model to reconstruct open array correlation matrices from coefficients drawn from closed percent systems The final chapter deals with bivariate allometric equation This book is a valuable resource for petroleum geologists and research workers [Handbook of Geomathematics](#) Willi Freeden,M. Zuhair Nashed,Thomas Sonar,2010-08-13 During the last three decades geosciences and geo engineering were

influenced by two essential scenarios First the technological progress has changed completely the observational and measurement techniques Modern high speed computers and satellite based techniques are entering more and more all geodisciplines Second there is a growing public concern about the future of our planet its climate its environment and about an expected shortage of natural resources Obviously both aspects viz efficient strategies of protection against threats of a changing Earth and the exceptional situation of getting terrestrial airborne as well as spaceborne data of better and better quality explain the strong need of new mathematical structures tools and methods Mathematics concerned with geoscientific problems i e Geomathematics is becoming increasingly important The Handbook Geomathematics as a central reference work in this area comprises the following scientific fields I observational and measurement key technologies II modelling of the system Earth geosphere cryosphere hydrosphere atmosphere biosphere III analytic algebraic and operator theoretic methods IV statistical and stochastic methods V computational and numerical analysis methods VI historical background and future perspectives

Recent Advances in Geomathematics - An International Symposium D.F. Merriam,2014-05-23 Recent Advances in Geomathematics An International Symposium

**Interpretation of Geophysical Fields in Complicated Environments** B.E. Khesin,V.G. Alexeyev,Lev Eppelbaum,2013-04-17 Books published during recent years in the field of applied geo physics can be in general divided into two main types The first type covers such multiaspect books as Introduction to Geophysics while the second special works on fundamental theoretical problems with an elaborate mathematical description The books of the first type are mainly intended for beginner students and specialists in adjacent fields The books of the second type may be useful for teachers and theorists However there are also books of another third type These books describe the experience in geophysical investigation under specific conditions or propose solutions to concrete geological problems being a methodological guide for geophysicists and concentrating ideas both for advanced students and researchers Authors hope to give the readers a book of this kind Interpretation of geophysical fields is a complex consistent process Its successful realization requires a knowledge of geological regularities and geological situation b availability of petrophysical support c mathematical methods of solving direct and inverse problems of geophysics i e computation of geophysical fields from a known source and determination of source characteristics from known fields d application of statistical and logico informational procedures to the analysis and synthesis of observation results for revealing desired objects and peculiarities of the geological structure

*Geographic Information Systems for Geoscientists* Graeme F. Bonham-Carter,2014-05-18 Geographic Information Systems for Geoscientists Modelling with GIS provides an introduction to the ideas and practice of GIS to students and professionals from a variety of geoscience backgrounds The emphasis in the book is to show how spatial data from various sources principally paper maps digital images and tabular data from point samples can be captured in a GIS database manipulated and transformed to extract particular features in the data and combined together to produce new derived maps that are useful for decision making and for understanding spatial

interrelationship The book begins by defining the meaning purpose and functions of GIS It then illustrates a typical GIS application Subsequent chapters discuss methods for organizing spatial data in a GIS data input and data visualization transformation of spatial data from one data structure to another and the combination analysis and modeling of maps in both raster and vector formats This book is intended as both a textbook for a course on GIS and also for those professional geoscientists who wish to understand something about the subject Readers with a mathematical bent will get more out of the later chapters but relatively non numerate individuals will understand the general purpose and approach and will be able to apply methods of map modeling to clearly defined problems

### **Microcomputer Applications in Geology 2 J.T.**

Hanley,D.F. Merriam,2013-10-22 The development and utilization of microcomputers is widespread and rapid in all scientific disciplines geology being no exception Microcomputers are becoming ubiquitous and indispensable in research and teaching as well as in the commercial sector The applications that are available to the geologic community today are increasingly dynamic and sophisticated although to date software has been the limiting factor This volume provides an excellent source of software and ideas on applications Papers cover a wide range of subjects both in geology and computer science The applications range from reconstructing fossil shells to reconstructing landscape terrains covering topics such as expert systems simulations database construction and data analysis and display

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