

Current Trends in Geomathematics

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Current Trends In Geomathematics:

Current Trends in Geomathematics Daniel Merriam, 2013-03-09 Since founding at the 23rd International Geological Congress in Prague in 1968 the International Association for Mathematical Geology has organized sessions in conjunction with the Congress The 27th IGC in Moscow was no exception and the IAMG again held sessions and assisted the Congress in organizing Section 20 Mathematical Geology and Geological Information D F Merriam D A Rodionov and R Sinding Larsen conveners All together 128 abstracts were published in the technical proceedings Several of the papers were published prior to the Congress others were not available and others deemed not appropriate for publication in this volume This collection then contains those papers available and representative of the sessions The collection is truly international with contributions from Canada China France Poland the UK USA and USSR They are representative of the state of the art as of the early 1980s in a variety of fields The application of geomathematics geostatistics to geological problems has been hastened by the availability of computers These papers reflect that orientation most of the results would not have been possible without the use of computers Most of the approaches utilize techniques readily available and adapted to solving geological problems simulation image analysis decision theory fuzzy sets etc However one area that of geostatistics which includes Kriging has been designed especially for use by earth scientists of the French school to solve geological problems

Computers in Geology John C. Davis, Ute Christina Herzfeld, 1993-11-04 This volume vividly demonstrates the importance and increasing breadth of quantitative methods in the earth sciences With contributions from an international cast of leading practitioners chapters cover a wide range of state of the art methods and applications including computer modeling and mapping techniques Many chapters also contain reviews and extensive bibliographies which serve to make this an invaluable introduction to the entire field In addition to its detailed presentations the book includes chapters on the history of geomathematics and on R G V Eigen the father of mathematical geology Written to commemorate the 25th anniversary of the International Association for Mathematical Geology the book will be sought after by both practitioners and researchers in all branches of geology

Encyclopedia of Mathematical Geosciences B. S. Daya Sagar, Qiuming Cheng, Jennifer McKinley, Frits Agterberg, 2023-07-13 The Encyclopedia of Mathematical Geosciences is a complete and authoritative reference work It provides concise explanation on each term that is related to Mathematical Geosciences Over 300 international scientists each expert in their specialties have written around 350 separate articles on different topics of mathematical geosciences including contributions on Artificial Intelligence Big Data Compositional Data Analysis Geomathematics Geostatistics Geographical Information Science Mathematical Morphology Mathematical Petrology Multifractals Multiple Point Statistics Spatial Data Science Spatial Statistics and Stochastic Process Modeling Each topic incorporates cross referencing to related articles and also has its own reference list to lead the reader to essential articles within the published literature The entries are arranged alphabetically for easy access and the subject and author indices are

comprehensive and extensive **Geologic Modeling and Mapping** Andrea Förster, Daniel F. Merriam, 2013-11-11 This volume is a compendium of papers on the subject as noted in the book title of modeling and mapping They were presented at the 25th Anniversary meeting of the International Association for Mathematical Geology IAMG at Praha Prague Czech Republic in October of 1993 The Association founded at the International Geological Congress IGC in Prague in 1968 returned to its origins for its Silver Anniversary celebration All in all 146 papers by 276 authors were offered for the 165 attendees at the 3 day meeting convened in the Hotel Krystal It was a time for remembrance and for future prognostication The selected papers in Geologic Modeling and Mapping comprise a broad range of powerful techniques used nowadays in the earth sciences Modeling stands for reconstruction of geological features such as subsurface structure in space and time as well as for simulation of geological processes both providing scenarios of geologic events and how these events might have occurred Mapping stands for spatial analysis of data a topic that always has been an extremely important part of the earth sciences Because both modeling and mapping are used widely in conjunction the book title should reflect the close relation of the subjects rather than a division Here we bring together a collection of papers that hopefully contribute to the growing amount of knowledge on these techniques *Computer Applications in the Earth Sciences* Daniel F. Merriam, 2013-03-09

Automated Stratigraphic Correlation F.P. Agterberg, 1990-04-26 This book provides an introduction to recent developments in automated stratigraphic correlation of fossil data using computer programs for ranking and scaling of stratigraphic events Mainframes or microcomputers can be used to aid the stratigrapher during data inventory for a region or time period for construction of a biozonation based on stratigraphic events such as the latest appearance datum of a fossil species and for automated correlation The book is intended for advanced geology students research workers and teachers with a background in stratigraphy and an interest in using computer based techniques for problem solving *Geologic Time Scale 2020* Felix Gradstein, James G. Ogg, Mark D. Schmitz, Gabi M. Ogg, 2020-10-30 Geologic Time Scale 2020 2 volume set contains contributions from 80 leading scientists who present syntheses in an easy to understand format that includes numerous color charts maps and photographs In addition to detailed overviews of chronostratigraphy evolution geochemistry sequence stratigraphy and planetary geology the GTS2020 volumes have separate chapters on each geologic period with compilations of the history of divisions the current GSSPs global boundary stratotypes detailed bio geochem sequence correlation charts and derivation of the age models The authors are on the forefront of chronostratigraphic research and initiatives surrounding the creation of an international geologic time scale The included charts display the most up to date international standard as ratified by the International Commission on Stratigraphy and the International Union of Geological Sciences As the framework for deciphering the history of our planet Earth this book is essential for practicing Earth Scientists and academics Completely updated geologic time scale Provides the most detailed integrated geologic time scale available that compiles and synthesizes information in one reference Gives insights on the construction strengths and

limitations of the geological time scale that greatly enhances its function and its utility *Frontiers in Geoscience Information* Geoscience Information Society. Meeting,1990 **The Impact of Quantification on Geology** Daniel Francis Merriam,1974 **Mathematical Reviews** ,1990 Computing Risk for Oil Prospects: Principles and Programs J.W. Harbaugh,J.C. Davis,J. Wendebourg,1995-11-22 The petroleum industry is enduring difficult financial times because of the continuing depressed price of crude oil on the world market This has caused major corporate restructuring and reductions in staff throughout the industry Because oil exploration must now be done with fewer people under more difficult economic constraints it is essential that the most effective and efficient procedures be used Computing Risk for Oil Prospects describes how prospect risk assessment predicting the distribution of financial gains or losses that may result from the drilling of an exploration well can be done using objective procedures implemented on personal computers The procedures include analyses of historical data interpretation of geological and geophysical data and financial calculations to yield a spectrum of the possible consequences of decisions All aspects of petroleum risk assessment are covered from evaluating regional resources through delineating an individual prospect to calculation of the financial consequences of alternative decisions and their possible results The bottom lines are given both in terms of the probable volumes of oil that may be discovered and the expected monetary returns Statistical procedures are linked with computer mapping and interpretation algorithms which feed their results directly into routines for financial analysis The programs in the included library of computer programs are tailored to fit seamlessly together and are designed for ease and simplicity of operation The two diskettes supplied are IBM compatible Full information on loading is given in Appendix A Software Installation Risk I diskette contains data files and executables and Risk 2 diskette contains only executables The authors contend that the explorationist who develops a prospect should be involved in every facet of its analysis including risk and financial assessments This book provides the tools necessary for these tasks **Geonews** ,1972 The American Journal of Science Mrs. Gambold,2006 **Syracuse University Geology Contribution** Syracuse University. Department of Geology,1974 **Neues Jahrbuch für Geologie und Paläontologie** ,1999 **The Log Analyst** ,1999 **Proceedings** ,1990 **Directory of Published Proceedings** ,1991 *Bulletin de L'Institut International de Statistique* ,1975 **ICID Journal** ,1995

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