

COMPUTER APPLICATIONS IN THE EARTH SCIENCES

# Geologic Modeling and Simulation

Sedimentary Systems



Edited by  
**Daniel F. Merriam**  
and  
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# Geologic Modeling And Simulation Sedimentary Systems

**Heinrich D Holland, Karl K. Turekian**



## **Geologic Modeling And Simulation Sedimentary Systems:**

Geologic Modeling and Simulation John Warvelle Harbaugh, 2001-08-31 Modeling and simulation were introduced to the earth sciences about four decades ago Modeling has proven its worth and now it is an accepted procedure for analyzing and solving geological problems The papers in this collection are focused on modeling sediment deposition and sedimentary sequences and have a decidedly practical flavor Some of the leading simulation packages such as CORRELATOR SEDFLUX SEDpak SEDSIM STRATA and STRATSIM are applied to problems in hydrocarbon exploration oil production groundwater development coal bed appraisal geothermics and environmental diagnosis All of these subjects fall under the broad heading of sedimentary basin analysis The fifteen papers in this volume are written by internationally recognized experts from academia and industry The contributions represent the status of geologic modeling and simulation at the start of the 21st century and will give the reader an insight into current research problems and their possible solutions Geologic Modeling

and Simulation Daniel F. Merriam, John C. Davis, 2012-12-06 Modeling and simulation were introduced to the earth sciences about four decades ago Modeling has proven its worth and now it is an accepted procedure for analyzing and solving geological problems The papers in this collection are focused on modeling sediment deposition and sedimentary sequences and have a decidedly practical flavor Some of the leading simulation packages such as CORRELATOR SEDFLUX SEDpak SEDSIM STRATA and STRATSIM are applied to problems in hydrocarbon exploration oil production groundwater development coal bed appraisal geothermics and environmental diagnosis All of these subjects fall under the broad heading of sedimentary basin analysis The fifteen papers in this volume are written by internationally recognized experts from academia and industry The contributions represent the status of geologic modeling and simulation at the start of the 21st century and will give the reader an insight into current research problems and their possible solutions **Analogue and**

**Numerical Modelling of Sedimentary Systems** Poppe de Boer, George Postma, Kees van der Zwan, Peter Burgess, Peter Kukla, 2009-01-26 Understanding basin fill evolution and the origin of stratal architectures has traditionally been based on studies of outcrops well and seismic data studies of and inferences on qualitative geological processes and to a lesser extent based on quantitative observations of modern and ancient sedimentary environments Insight gained on the basis of these studies can increasingly be tested and extended through the application of numerical and analogue forward models Present day stratigraphic forward modelling follows two principle lines 1 the deterministic process based approach ideally with resolution of the fundamental equations of fluid and sediment motion at all scales and 2 the stochastic approach The process based approach leads to improved understanding of the dynamics physics of the system increasing our predictive power of how systems evolve under various forcing conditions unless the system is highly non linear and hence difficult or perhaps even impossible to predict The stochastic approach is more direct relatively simple and useful for study of more complicated or less well understood systems Process based models more than stochastic ones are directly limited by the diversity of

temporal and spatial scales and the very incomplete knowledge of how processes operate and interact on the various scales. The papers included in this book demonstrate how cross fertilization between traditional field studies and analogue and numerical forward modelling expands our understanding of Earth surface systems. Deepwater Sedimentary Systems Jon R. Rotzien, Cindy A. Yeilding, Richard A. Sears, F. Javier Hernández-Molina, Octavian Catuneanu, 2022-08-18. Deepwater Sedimentary Systems Science Discovery and Applications helps readers identify, understand and interpret deepwater sedimentary systems at various scales both onshore and offshore. This book describes the best practices in the integration of geology, geophysics, engineering technology and economics used to inform smart business decisions in these diverse environments. It draws on technical results gained from deepwater exploration and production drilling campaigns and global field analog studies. With the multi-decadal resilience of deepwater exploration and production and the nature of its inherent uncertainty, this book serves as the essential reference for companies, consultancies, universities, governments and deepwater practitioners around the world seeking to understand deepwater systems and how to explore for and produce resources in these frontier environments. From an academic perspective, readers will use this book as the primer for understanding the processes, deposits and sedimentary environments in deep water from deep oceans to deep lakes. This book provides conceptual approaches and state-of-the-art information on deepwater systems as well as scenarios for the next 100 years of human-led exploration and development in deepwater offshore environments. The students taught this material in today's classrooms will become the leaders of tomorrow in Earth's deepwater frontier. This book provides a broad foundation in deepwater sedimentary systems. What may take an individual dozens of academic and professional courses to achieve an understanding in these systems is provided here in one book. Presents a holistic view of how subsurface and engineering processes work together in the energy industry, bringing together contributions from the various technical and engineering disciplines. Provides diverse perspectives from a global authorship to create an accurate picture of the process of deepwater exploration and production around the world. Helps readers understand how to interpret deepwater systems at various scales to inform smart business decisions with a significant portion of the workflows derived from the upstream energy industry.

**Geochemical Anomaly and Mineral Prospectivity Mapping in GIS** E.J.M. Carranza, 2008-11-26. Geochemical Anomaly and Mineral Prospectivity Mapping in GIS documents and explains in three parts geochemical anomaly and mineral prospectivity mapping by using a geographic information system (GIS). Part I reviews and couples the concepts of a mapping geochemical anomalies and mineral prospectivity and b spatial data models management and operations in a GIS. Part II demonstrates GIS-aided and GIS-based techniques for analysis of robust thresholds in mapping of geochemical anomalies. Part III explains GIS-aided and GIS-based techniques for spatial data analysis and geo-information synthesis for conceptual and predictive modeling of mineral prospectivity. Because methods of geochemical anomaly mapping and mineral potential mapping are highly specialized yet diverse, the book explains only methods in which GIS plays an important role. The book

avoids using language and functional organization of particular commercial GIS software but explains where necessary GIS functionality and spatial data structures appropriate to problems in geochemical anomaly mapping and mineral potential mapping. Because GIS based methods of spatial data analysis and spatial data integration are quantitative which can be complicated to non numerate readers the book simplifies explanations of mathematical concepts and their applications so that the methods demonstrated would be useful to professional geoscientists to mineral explorationists and to research students in fields that involve analysis and integration of maps or spatial datasets. The book provides adequate illustrations for more thorough explanation of the various concepts. Explains GIS functionality and spatial data structures appropriate regardless of the particular GIS software in use. Simplifies explanation of mathematical concepts and application. Illustrated for more thorough explanation of concepts.

*Geological Prior Information* Andrew Curtis, Rachel Wood, 2004. Geological prior information represents a new and emerging field within the geosciences. Prior information is the term used to describe previously existing knowledge that can be brought to bear on a new problem. This volume describes a range of methods that can be used to find solutions to practical and theoretical problems using geological prior information and the nature of geological information that can be so employed.

*Progress in Geomathematics* Graeme Bonham-Carter, Cheng Qiuming, 2008-09-20. Celebrating Frits Agterberg's half century of publication activity in geomathematics this volume's 28 timely papers written by his friends and colleagues treat a variety of subjects of current interest many of them also studied by Frits including spatial analysis in mineral resource assessment quantitative stratigraphy nonlinear multifractal models compositional data analysis time series analysis image analysis and geostatistics. Professor Agterberg published his first paper as a graduate student in 1958 and has since produced and continues to publish a steady stream of research papers on a wide variety of subjects of interest to geomathematical practitioners. Most of the papers included here address methodology and feature practical case studies so that the book likely has broad appeal to those interested in mathematical geosciences both to academic researchers seeking a comprehensive overview and also to practitioners of geomathematical approaches in industry.

**Treatise on Geochemistry**, 2013-10-19. This extensively updated new edition of the widely acclaimed *Treatise on Geochemistry* has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry. In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively. These additions increased the number of volumes in the *Treatise* from 9 to 15 with the index appendices volume remaining as the last volume Volume 16. Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions. As a result 27% were republished without major changes 66% were revised and 126 new chapters were added. In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another

is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume

**Continental Margin Sedimentation** Charles A. Nittrouer, James A. Austin, Michael E. Field, Joseph H. Kravitz, James P. M. Syvitski, Patricia L. Wiberg, 2009-03-12 This volume on continental margin sedimentation brings together an expert editorial and contributor team to create a state of the art resource Taking a global perspective the book spans a range of timescales and content ranging from how oceans transport particles to how thick rock sequences are formed on continental margins Summarizes and integrates our understanding of sedimentary processes and strata associated with fluvial dispersal systems on continental shelves and slopes Explores timescales ranging from particle transport at one extreme to deep burial at the other Insights are presented for margins in general and with focus on a tectonically active margin northern California and a passive margin New Jersey enabling detailed examination of the intricate relationships between a wide suite of sedimentary processes and their preserved stratigraphy Includes observational studies which document the processes and strata found on particular margins in addition to numerical models and laboratory experimentation which provide a quantitative basis for extrapolation in time and space of insights about continental margin sedimentation Provides a research resource for scientists studying modern and ancient margins and an educational text for advanced students in sedimentology and stratigraphy

**MEMOIRS JOHN WARVELLE HARBAUGH**, 2013-02-23 John W Harbaugh has had a career in geology and academia and is a Professor Emeritus of Geological Sciences at Stanford University He is the author or coauthor of 12 books and has also been connected with oil industry for much of his career He currently manages oil and gas properties in Oklahoma and Texas

**Fractals and Multifractals in the Geosciences** Behnam Sadeghi, 2024-05-17 Fractals and Multifractals in the Geosciences details the application of a wide range of multifractal methods including many novel ones developed by the author along with the assessment of uncertainty in sample classification and stability of spatial patterns This book also provides criteria for selection of the most effective combination of data pre processing and multifractal modeling to extract desired features or signals in the data The book specifically aims to introduce apply and test novel multifractal models that account directly for changes in relationships between variables as well as the effects of distance between samples and the source of anomalous metal contents in geoscience samples Linked to this will be assessment of the effects of different pre processing of data prior to application of the models and quantification model uncertainty in geochemical anomaly maps associated with sample classification and spatial interpolation Gaussian simulations such as Sequential Gaussian Simulation and Monte Carlo

Simulation will be applied to the new multifractal models developed and a suite of existing models including simulated concentration area spectrum area singularity and other models Fractals and Multifractals in the Geosciences will be invaluable for mathematical geoscientists geostatisticians exploration applied urban and environmental geochemists computational geoscientists data scientists and GIS professionals who need to better understand fractal geometry along with its theory and applications in geochemical anomaly classification to generate maps that are helpful for decision making for follow up sampling and explorations Provides a comprehensive overview of the use of fractal and multifractal modeling methods with a detailed assessment of uncertainty quantification in samples and classified models Specifically includes novel multifractal models as well as uncertainty quantification and decision making methods for use in geosciences and especially geochemistry Includes case studies showing the application of the fractal and multifractal methods detailed in the book

*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

**Statistics for Earth and Environmental Scientists** John H. Schuenemeyer, Lawrence J. Drew, 2011-04-12 A comprehensive treatment of statistical applications for solving real world environmental problems A host of complex problems face today's earth science community such as evaluating the supply of remaining non renewable energy resources assessing the impact of people on the environment understanding climate change and managing the use of water Proper collection and analysis of data using statistical techniques contributes significantly toward the solution of these problems *Statistics for Earth and Environmental Scientists* presents important statistical concepts through data analytic tools and shows readers how to apply them to real world problems The authors present several different statistical approaches to the environmental sciences including Bayesian and nonparametric methodologies The book begins with an introduction to types of data evaluation of data modeling and estimation random variation and sampling all of which are explored through

case studies that use real data from earth science applications Subsequent chapters focus on principles of modeling and the key methods and techniques for analyzing scientific data including Interval estimation and Methods for analyzing hypothesis testing of means time series data Spatial statistics Multivariate analysis Discrete distributions Experimental design Most statistical models are introduced by concept and application given as equations and then accompanied by heuristic justification rather than a formal proof Data analysis model building and statistical inference are stressed throughout and readers are encouraged to collect their own data to incorporate into the exercises at the end of each chapter Most data sets graphs and analyses are computed using R but can be worked with using any statistical computing software A related website features additional data sets answers to selected exercises and R code for the book's examples Statistics for Earth and Environmental Scientists is an excellent book for courses on quantitative methods in geology geography natural resources and environmental sciences at the upper undergraduate and graduate levels It is also a valuable reference for earth scientists geologists hydrologists and environmental statisticians who collect and analyze data in their everyday work

**Essentials of Geochemistry** John V. Walther, Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment N. Janardhana Raju, 2015-11-30 These proceedings of the IAMG 2014 conference in New Delhi explore the current state of the art and inform readers about the latest geostatistical and space based technologies for assessment and management in the contexts of natural resource exploration environmental pollution hazards and natural disaster research The proceedings cover 3D visualization time series analysis environmental geochemistry numerical solutions in hydrology and hydrogeology geotechnical engineering multivariate geostatistics disaster management fractal modeling petroleum exploration geoinformatics sedimentary basin analysis spatiotemporal modeling digital rock geophysics advanced mining assessment and glacial studies and range from the laboratory to integrated field studies Mathematics plays a key part in the crust mantle oceans and atmosphere creating climates that cause natural disasters and influencing fundamental aspects of life supporting systems and many other geological processes affecting Planet Earth As such it is essential to understand the synergy between the classical geosciences and mathematics which can provide the methodological tools needed to tackle complex problems in modern geosciences The development of science and technology transforming from a descriptive stage to a more quantitative stage involves qualitative interpretations such as conceptual models that are complemented by quantification e.g. numerical models fast dynamic geologic models deterministic and stochastic models Due to the increasing complexity of the problems faced by today's geoscientists joint efforts to establish new conceptual and numerical models and develop new paradigms are called for Coastline Changes Jan Harff, William W. Hay, Daniel M. Tetzlaff, 2007-01-01 This volume contributes to the current discussion of the role of natural and anthropogenic driving forces for coastal processes and their socioeconomic consequences Special attention is paid to computerized tools that allow us based on reconstruction of paleodevelopments to predict the interference of processes on



different time scales On the one hand the book provides an overview of the current model developments in describing vertical crustal movement climate change forcing sea level variations the genesis of the basin fill along continental margins and the interference of these processes in coastal development On the other hand it describes coastal development in key areas for different climate zones and geological settings Coastline Changes is addressed to students and professionals in the geosciences archaeology social sciences economy and computer sciences It will foster interdisciplinary discussion for the purpose of developing integrated concepts for sustainable development of the coastal zones Publisher's website

Geochemistry of Earth Surface Systems Heinrich D Holland, Karl K. Turekian, 2010-09-27 Geochemistry of Earth Surface Systems offers an interdisciplinary reference for scientists researchers and upper undergraduate and graduate level geochemistry students a sampling of articles on earth surface processes from The Treatise on Geochemistry that is more affordable than the full Treatise For professionals this volume will provide an overview of the field as a whole For students it will provide more in depth introductory content than is found in broad based geochemistry textbooks Articles were selected from chapters across all volumes of the full Treatise and include Volcanic Degassing Hydrothermal Processes The Contemporary Carbon Cycle Global Occurrence of Major Elements in Rivers Organic Matter in the Contemporary Ocean The Biological Pump and Evolution of Sedimentary Rocks Comprehensive interdisciplinary and authoritative content selected by leading subject experts Robust illustrations figures and tables Affordably priced sampling of content from the full Treatise on Geochemistry

**Encyclopedia of Coastal Science** M. Schwartz, 2006-11-08 Honorable Mention Award for Excellence in Scholarly and Professional Publishing Maurice Schwartz Editor of the much acclaimed Encyclopedia of Beaches and Coastal Environments Hutchinson Ross 1982 has now brought forth a new volume with a fresh interdisciplinary approach that includes geomorphology ecology engineering technology oceanography and human activities as they relate to coasts Within its covers the Encyclopedia of Coastal Science includes many aspects of the coastal sciences that are only to be found scattered among scientific literature Being broadly interdisciplinary in its treatment of coasts the Encyclopedia of Coastal Science features contributions by 245 well known international specialists in their respective fields and is abundantly illustrated with line drawings and photographs Not only does this volume offer an extensive number of entries it also includes various appendices an illustrated glossary of coastal geomorphology and extensive bibliographic listings This Encyclopedia thus provides a comprehensive reference work for students professionals as well as informed lay readers

*Three-dimensional Modelling of Thrust-controlled Foreland Basin Stratigraphy* Quintijn Clevis, 2003

**Sediments, Diagenesis, and Sedimentary Rocks** F.T. Mackenzie, 2005-11-22 This volume covers the formation and biogeochemistry of a variety of important sediment types from their initial formation through their conversion diagenesis to sedimentary rocks The volume deals with the chemical mineralogical and isotopic properties of sediments and sedimentary rocks and their use in interpreting the environment of formation and subsequent events in the history of sediments and the nature of the ocean

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