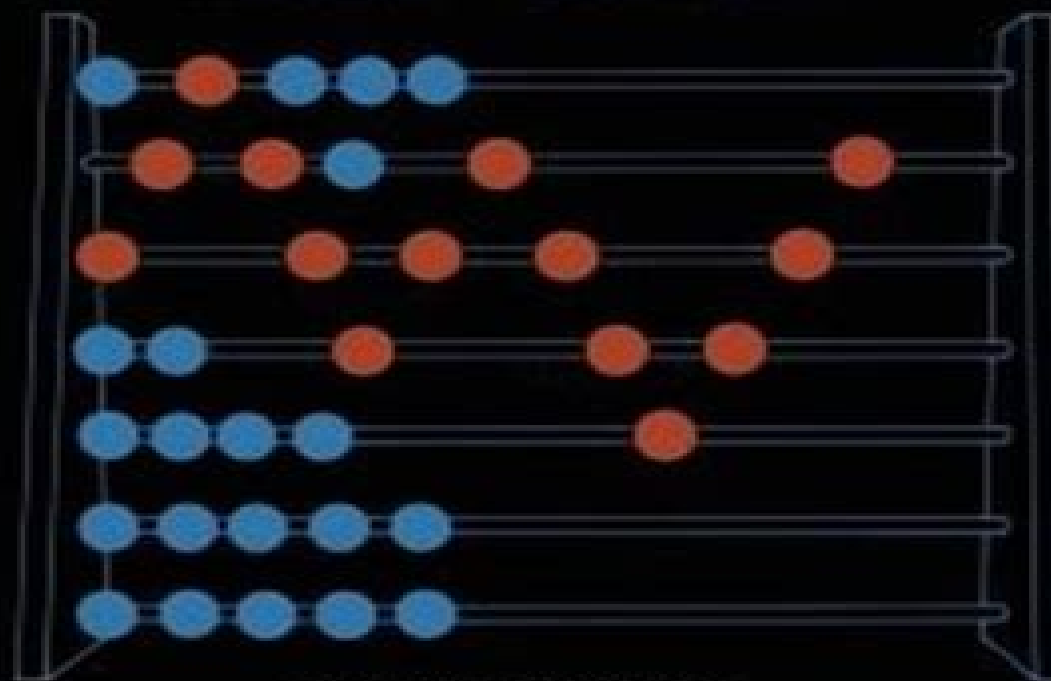


A.R. CAMINA AND G.J. JANACEK

# MATHEMATICS FOR SEISMIC DATA PROCESSING AND INTERPRETATION



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# Mathematics For Seismic Data Processing And Interpretation

**Kalachand Sain, Priyadarshi Chinmoy  
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## **Mathematics For Seismic Data Processing And Interpretation:**

*Mathematics for Seismic Data Processing and Interpretation* A.R. Camina, J. Janacek, 2012-12-06 With the growth of modern computing power it has become possible to apply far more mathematics to real problems This has led to the difficulty that many people who have been working in various jobs suddenly find themselves not understanding the modern processing which is being applied to their own professional field It also means that the people presently being trained in these subjects need to understand a much wider range of mathematics than in the past It is to both of these groups that this book is addressed The major objective is to present the reader with the basic mathematical understanding to follow the new developments in their own field The mathematics in this book is based on the need to understand signal processing The modern work in this area is mathematically very sophisticated and our purpose is not to train professional mathematicians but to make far more of the literature accessible Since this book is based on courses devised for Racial Geophysics there is clearly going to be a bias towards the applications in that area as the title implies It is also true that the bibliography has been chosen in order to aid the reader in that field by pointing them in the direction of recent applications in geophysics

*An Introduction to Geophysical Exploration* Philip Kearey, Michael Brooks, Ian Hill, 2013-04-16 This new edition of the well established Kearey and Brooks text is fully updated to reflect the important developments in geophysical methods since the production of the previous edition The broad scope of previous editions is maintained with even greater clarity of explanations from the revised text and extensively revised figures Each of the major geophysical methods is treated systematically developing the theory behind the method and detailing the instrumentation field data acquisition techniques data processing and interpretation methods The practical application of each method to such diverse exploration applications as petroleum groundwater engineering environmental and forensic is shown by case histories The mathematics required in order to understand the text is purposely kept to a minimum so the book is suitable for courses taken in geophysics by all undergraduate students It will also be of use to postgraduate students who might wish to include geophysics in their studies and to all professional geologists who wish to discover the breadth of the subject in connection with their own work

*Handbook of Exploration Geophysics* Paul A. Chapel, 1992-01-01 Geophysics the excellent exploration tool which traditionally uses the latest techniques has been in great demand and has assisted by remarkable development of the methods which consist of gravimetry electromagnetics and the most important seismic reflection The book is presented like an encyclopedia One may find an exact definition illustrated with simple sketches precise formulae orders of magnitude data which have so often been missing      **Practical Seismic Data Analysis** Hua-Wei Zhou, 2014-01-23 Modern introduction to seismic data processing demonstrating exploration and global geophysics applications through real data and tutorial examples that can be demonstrated with the instructor's software of choice The underlying physics and mathematics of analysis methods is presented showing students the limitations and potential for creating models of the sub surface

Mathematics in Geology John Ferguson, 2013-11-11 1 1 Solution of geological problems are mathematical methods necessary A question which is often asked is whether it is necessary for geologists to know and to use mathematics in the practise of their science There is no simple answer to this question and it is true that many geologists have had successful careers without ever needing to get involved in anything other than simple mathematics and all the indications are that this is likely to continue into the future However in many branches of the subject the trend has been towards using a numerical approach for the solution of suitable problems The extent to which this occurs depends on the nature of the area being studied thus in structural geology which is concerned in its simplest aspects with the geometrical relationships between various features there are many problems which are easily solved More recently the use of analytical methods has allowed the solution of more difficult problems In another area geochemistry two things have happened On the theoretical side there has been a greater integration with physical chemistry which itself is a highly mathematical subject and on the practical side there is the need to analyse and interpret the vast quantities of data which modern instrumentation produces Within geology the application of numerical methods has been given various names so we have numerical geology geo mathematics geostatistics and geosimulation

**Meta-attributes and Artificial Networking** Kalachand Sain, Priyadarshi Chinmoy Kumar, 2022-08-16 Applying machine learning to the interpretation of seismic data Seismic data gathered on the surface can be used to generate numerous seismic attributes that enable better understanding of subsurface geological structures and stratigraphic features With an ever increasing volume of seismic data available machine learning augments faster data processing and interpretation of complex subsurface geology Meta Attributes and Artificial Networking A New Tool for Seismic Interpretation explores how artificial neural networks can be used for the automatic interpretation of 2D and 3D seismic data Volume highlights include Historic evolution of seismic attributes Overview of meta attributes and how to design them Workflows for the computation of meta attributes from seismic data Case studies demonstrating the application of meta attributes Sets of exercises with solutions provided Sample data sets available for hands on exercises The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

**Introduction to Petroleum Seismology, second edition** Luc T. Ikelle, Lasse Amundsen, 2018-03-26 Introduction to Petroleum Seismology second edition SEG Investigations in Geophysics Series No 12 provides the theoretical and practical foundation for tackling present and future challenges of petroleum seismology especially those related to seismic survey designs seismic data acquisition seismic and EM modeling seismic imaging microseismicity and reservoir characterization and monitoring All of the chapters from the first edition have been improved and or expanded In addition twelve new chapters have been added These new chapters expand topics which were only alluded to in the first edition sparsity representation sparsity and nonlinear optimization near simultaneous multiple shooting acquisition and processing nonuniform wavefield sampling automated

modeling elastic electromagnetic mathematical equivalences and microseismicity in the context of hydraulic fracturing

Another major modification in this edition is that each chapter contains analytical problems as well as computational problems. These problems include MatLab codes which may help readers improve their understanding of and intuition about these materials. The comprehensiveness of this book makes it a suitable text for undergraduate and graduate courses that target geophysicists and engineers as well as a guide and reference work for researchers and professionals in academia and in the petroleum industry.

**Mathematical Methods and Modelling in Hydrocarbon Exploration and Production**

Armin Iske, Trygve Randen, 2006-01-27 Hydrocarbon exploration and production incorporate great technology challenges for the oil and gas industry. In order to meet the world's future demand for oil and gas, further technological advance is needed which in turn requires research across multiple disciplines including mathematics, geophysics, geology, petroleum engineering, signal processing and computer science. This book addresses important aspects and fundamental concepts in hydrocarbon exploration and production. Moreover, new developments and recent advances in the relevant research areas are discussed whereby special emphasis is placed on mathematical methods and modelling. The book reflects the multi-disciplinary character of the hydrocarbon production workflow ranging from seismic data imaging, seismic analysis and interpretation and geological model building to numerical reservoir simulation. Various challenges concerning the production workflow are discussed in detail. The thirteen chapters of this joint work, authored by international experts from academic and industrial institutions, include survey papers of expository character as well as original research articles. Large parts of the material presented in this book were developed between November 2000 and April 2004 through the European research and training network NetAGES (Network for Automated Geometry Extraction from Seismic). The new methods described here are currently being implemented as software tools at Schlumberger Stavanger Research, one of the world's largest service providers to the oil industry.

Safety in Offshore Drilling D.A. Ardus, C.D. Green, 2012-12-06 Shallow Gas determination prior to drilling is carried out using Engineering Seismic survey methods. Seismic acquisition data quality is fundamental in achieving this objective as both the data processing methods and interpretation accuracy are subject to the quality of the data obtained. The recent application of workstation based data analysis and interpretation has clearly demonstrated the importance of acquisition data quality on the ability to determine the risks of gas with a high level of confidence. The following pages summarise the 5 primary issues that influence acquisition data. QC suggests future trends and considers their potential impact. The primary issues covered in this paper are:

- A Seismic
- B Positioning
- C QC Data Analysis
- D Communications
- E Personnel

90 SAFETY IN OFFSHORE DRILLING FIELD QC PRIMARY COMPONENTS COMMERCIAL TECHNICAL 1 OPERATIONAL

FIGURE 1 HYDROSEARCH The often complex influences of Technical, Commercial and Operational constraints on the acquisition of high quality data require careful management by the QC supervisor in order to achieve a successful seismic survey data set. The following pages only consider the Technical aspects of QC and assume that no

Commercial or Operational restrictions are imposed in the achievement of optimum data quality. It is noted however that such restrictions are frequently responsible for significant compromise in data coverage and quality during routine rig site surveys. *product guide SUMMER 2008*, Exploration Geophysics Mamdouh R. Gadallah, Ray Fisher, 2008-11-04. Many text books have been written on the subject Exploration Geophysics. The majority of these texts focus on the theory and the mathematical treatment of the subject matter but lack treatment of practical aspects of geophysical exploration. This text is written in simple English to explain the physical meaning of jargon or terms used in the industry. It describes how seismic data is acquired in 2 D and 3 D how they are processed to convert the raw data to seismic vertical and horizontal cross sections that are geologically meaningful and how these and other data are interpreted to delineate a prospect. Workshops are included after each chapter and are designed to reinforce learning of the concepts presented. Key Features: Written in simple easy to understand language. Heavily illustrated to aid in understanding the text. End of chapter Key words and workshop. The text includes several appendices and answers for the selected workshop problems. **Studii si cercetari de geologie, geofizica, geografie. Geofizica** Academia Republicii Socialiste România, 1987. *Coding and Decoding: Seismic Data* Luc T. Ikelle, 2010-03-29. Currently the acquisition of seismic surveys is performed as a sequential operation in which shots are computed separately one after the other. This approach is similar to that of multiple access technology which is widely used in cellular communications to allow several subscribers to share the same telephone line. The cost of performing various shots simultaneously is almost identical to that of one shot thus the savings in time and money expected from using the multishooting approach for computing seismic surveys compared to the current approach are enormous. By using this approach the long standing problem of simulating a three dimensional seismic survey can be reduced to a matter of weeks and not years as is currently the case. Investigates how to collect stimulate and process multishooting data. Addresses the improvements in seismic characterization and resolution one can expect from multishooting data. Aims to educate the oil and gas exploration and production business of the benefits of multishooting data and to influence their day to day surveying techniques. Tensor Computation for Seismic Data Processing Feng Qian, Shengli Pan, Gulan Zhang, 2025-04-26. This book aims to provide a comprehensive understanding of tensor computation and its applications in seismic data analysis exclusively catering to seasoned researchers graduate students and industrial engineers alike. Tensor emerges as a natural representation of multi dimensional modern seismic data and tensor computation can help prevent possible harm to the multi dimensional geological structure of the subsurface that occurred in classical seismic data analysis. It delivers a wealth of theoretical computational technical and experimental details presenting an engineer's perspective on tensor computation and an extensive investigation of tensor based seismic data analysis techniques. Embark on a transformative exploration of seismic data processing unlock the potential of tensor computation and reshape your approach to high dimensional geological structures. The discussion begins with foundational chapters providing a solid background in both seismic data

processing and tensor computation The heart of the book lies in its seven chapters on tensor based seismic data analysis methods From structured low tubal rank tensor completion to cutting edge techniques like tensor deep learning and tensor convolutional neural networks each method is meticulously detailed The superiority of tensor based data analysis methods over traditional matrix based data analysis approaches is substantiated through synthetic and real field examples showcasing their prowess in handling high dimensional modern seismic data Notable chapters delve into seismic noise suppression seismic data interpolation and seismic data super resolution using advanced tensor models The final chapter provides a cohesive summary of the conclusion and future research directions ensuring readers facilitate a thorough understanding of tensor computation applications in seismic data processing The appendix includes a hatful of information on existing tensor computation software enhancing the book s practical utility Inventory of Current Energy Research and Development Oak Ridge National Laboratory,1972

**Characterization of Ore-Forming Systems from Geological, Geochemical and Geophysical Studies** K. Gessner,T.G. Blenkinsop,P. Sorjonen-Ward,2018-08-07 Economically viable concentrations of mineral resources are uncommon in Earth s crust Most ore deposits that were mined in the past or are currently being extracted were found at or near Earth s surface often serendipitously To meet the future demand for mineral resources exploration success hinges on identifying targets at depth Achieving this requires accurate and informed models of the Earth s crust that are consistent with all available geological geochemical and geophysical information paired with an understanding of how ore forming systems relate to Earth s evolving structure Contributions to this volume address the future resources challenge by i applying advanced microscale geochemical detection and characterization methods ii introducing more rigorous 3D Earth models iii exploring critical behaviour and coupled processes iv evaluating the role of geodynamic and tectonic setting and v applying 3D structural models to characterize specific ore forming systems

Developments in Geophysical Exploration Methods—1 A. A. Fitch,2012-12-06 This is a collection of original papers each by an expert in his field They deal with different sectors of recent geophysical development It may be at first difficult to see what else unites them and how these several technologies can contribute to an integrated exploration process What brings these writers together is that they have all contributed to the improvement of what comes to the eye of the geophysical interpreter Some of the improvement is achieved at the data gathering stage some of it in processing and in presentation For all of this improvement interpreters in general are most grateful The editor is appreciative in a quite personal way not only of the advances in technology but also of the effort in writing which has been made by these busy contributors and so created this collection Something can be said here about interpretation and the environment in which it is carried out since it represents the field where the results of these technical developments are ultimately tested In the commercial world it is from the geophysical interpreter that management learns the results of a large sector of exploration expenditure and learns them in a form on which still larger expenditures on later phases of exploration can be based **Computer Applications in**

**the Earth Sciences** Daniel Merriam, 2013-03-08 It has been evident for several years that a summary of where we came from where we are and where we are going with computer oriented research was not only desirable but necessary The application of computers by earth scientists is numerous and the methods have proved of value in problem solving as well as data processing Many methods unknown or unavailable just a few years ago now are used routinely An overall appraisal of the methods at this time is deemed more than appropriate Preface to the program was stated as Computer applications in the earth sciences is the subject of this International Symposium held on campus at The University of Kansas at Lawrence on 16 17 and 18 June 1969 The symposium the sixth in a series is sponsored by the Kansas Geological Survey International Association for Mathematical Geology and University Extension Papers by leading experts in their field stress the status of the art Speakers will discuss the use of computers in the earth sciences past present and future The meeting is planned for those not acquainted with the tremendous advancements made in quantitative methods in recent years and those who are interested in future possibilities

*A Handbook for Seismic Data Acquisition in Exploration* Brian J. Evans, William H. Dragoset, 1997 This illustration rich book explains a broad spectrum of seismic data acquisition operations from a fundamental and practical standpoint ranging from land to marine 2D methods to 3D seismic methods The book explains why we use the seismic method in exploration and is written in a manner palatable to geologists field crews exploration managers petroleum engineers and geophysicists The book is written by a senior lecturer at a university and is ideal for use as a text in educational settings It opens with a brief history of the origins of the seismic method It explains how to understand what we see on shot records It examines the problem of noise and how to improve seismic signals using geophone and hydrophone arrays Other discussions cover land and marine receiver equipment available energy sources fundamental stacking methods as an approach to understanding operations of seismic instrumentation basic geodetic systems and the use of GPS systems Each chapter concludes with exercises designed to emphasize problems of recording field data including setting up survey parameters

*Petroleum Abstracts. Literature and Patents*, 1990



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