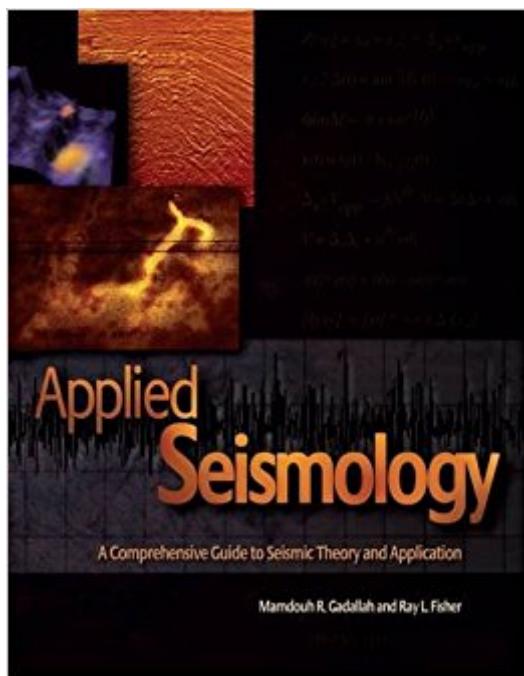


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# Applied Seismology: A Comprehensive Guide To Seismic Theory And Application



## **Synopsis**

This new text provides comprehensive coverage of exploration seismology and elements of geology pertinent to exploration geology. It is profusely illustrated and has workshops included to aid understanding. The text includes several appendices to explain the math, equations and answers of the selected exercise questions.

## **Book Information**

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## **Customer Reviews**

Mamdouh R. Gadallah has 40 years of worldwide experience in geophysics, geology, and petroleum engineering. His career began as a field production and reservoir engineer based in Egypt, working in the Sinai Desert for AGIP. He then relocated to the U.S. and worked in the same capacity with a consulting firm before joining Seismograph Service Corporation as a seismic interpreter. Gadallah was chief geophysicist at Pacific Enterprises Oil Company, consultant for 4-D International, and most recently senior geophysical instructor for WesternGeco. He has a BS in petroleum engineering, with graduate studies in geophysics at the Universities of Cairo and Tulsa. He has taught numerous seminars for the University of Tulsa, Division of Continuing Education. He is an active member of SEG and the Geophysical Society of Tulsa. Ray L. Fisher has more than 40 years of experience in developing specialized training in both geology and geophysics. He began his career with Geophysical Service, Inc. in Dallas before moving to Halliburton and then to Western Geophysical, both in Houston. Fisher earned a BS and MS in Physics from Oklahoma State University. He is a member of Society of Exploration Geophysicists and Geophysical Society of

Houston.

very good

Applied Seismology(A comprehensive guide to seismic theory and application)By Mamdouh R. Gadallah and Ray L. FisherPublisher: PennWell booksThe recent demand in the petroleum sector for new hires in all aspects of the business and the lack of practical training has created a major gap in the industry. Most of the books published by the professional societies and their training programs are highly specialized. The book by Gadallah and Fisher fills this void; it is timely and is a one stop shop for new interns, graduates and returnees to the business. The book covers aspects of petroleum exploration, development and reservoir monitoring. The book is orderly, well written, clear illustrations and contains plenty of practical examples. It is concluded with an extensive appendices and a bibliography.The integrated approach by the authors to the subject makes the book distinctive. I highly recommend it to practicing geoscientist, reservoir seismologists, processors and field operators.This book belongs on the desk of everyone working in petroleum exploration. It is an outstanding reference.Osman M. Hassan, Ph.D.Imaging GeoscientistVeritas DGC Inc.Houston, TX.

Applied SeismologyByMamdouh R. Gadallah and Ray L. FisherCommentsNot too long ago, the science of exploration geophysics could be described in a single volume. Today, it is a vast and highly sophisticated field of modern technology. Its development has been possible by sustained efforts of scientists of different backgrounds -- physicists, geologists, electrical engineers, mathematicians and computer scientists. A large number of books have been published in recent years in their respective areas of specialization. Unfortunately, these books tend to be more advanced and not ideally suited to the needs of a beginner. Applied Seismology by Mamdouh and Fisher will fill a much-needed gap.This book opens with a short introduction to the basics of petroleum geology. In view of the fact that a large number of geophysicists have no basic education in geology, this chapter will serve an important purpose. The next chapter provides elementary geophysical and mathematical background. The rest of the book is devoted to the main tasks of geophysical exploration, viz., acquisition, processing and interpretation of seismic data. The authors do not hesitate to include topics such as permitting which cannot be classified as geophysics but are essential from the practical standpoint. The heart of this book seems to lie in the chapter on seismic data processing, which is very well treated. The final chapter is devoted to a detailed discussion on various aspects of data interpretation including some relatively recent developments

related to high-resolution data acquisition, VSP, AVO and 4-D seismic technology. Throughout their treatment, the authors emphasize the practical aspects of geophysics and provide plenty of examples involving real seismic data. At the end of various chapters, they also provide workshops useful for students. This interesting feature makes this book a valuable tool both for the beginner and the practicing geophysicist. Irshad Mufti Houston, Texas

This book is for beginners and experts alike. The book offers a refreshing insight in Geophysics as reference for Engineers, Geologists and Geophysicists. It may be used as a quick reference or a detailed investigation into seismological topics. I highly recommend it for the college student attending Geoscience classes (as well as every practicing geophysicist). Workshops are a valuable feature - complete with answers. As a dictionary resource, the user will receive a precise definition of geophysical terminology. Topics covered in the book are relevant to all sectors of Seismology - Acquisition, Processing and Interpretation (using modern seismic techniques). Mike Walsh

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