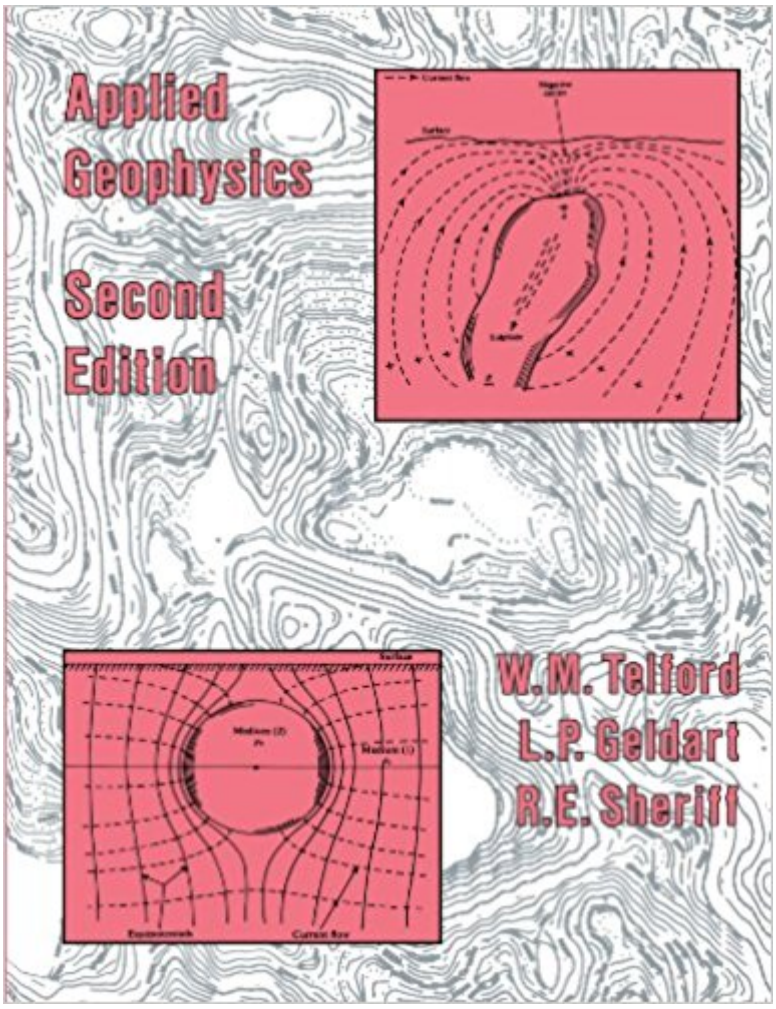
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Applied Geophysics



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Synopsis

Completely revised and updated, this new edition of the popular and highly regarded textbook, Applied Geophysics, describes the physical methods involved in exploration for hydrocarbons and minerals. These tools include gravity, magnetic, seismic, electrical, electromagnetic, and radioactivity studies. All aspects of these methods are described, including theoretical considerations, data acquisition, and data processing and interpretation, with the objective of locating concentrations of natural resources and defining their extent. In the past fourteen years or so since the writing of Applied Geophysics, there have been many changes in the field of exploration geophysics. The authors give full treatment to changes in this field, which include improved techniques for calculating gravity fields, the use of proton-precession and optically-pumped magnetometers, improved quality of seismic data, magnetotelluric as a practical exploration method, new electromagnetic exploration methods, the use of gamma-ray spectrometers in radioactive exploration, and improved well-logging techniques. The intent is to be practical, and thus many actual examples and problems are given. Moreover, wherever possible in this edition the authors adopt the use of SystÃƒÂ¨me Internationale (SI) units, which were not in standared use at the time of the first edition. The reader needs only a general background knowledge of geology, physics, and mathematics. Most of the math can be skipped by those interested only in the results. Advanced mathematical concepts are explained in the appendix.

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"...an excellent text book...it will serve well as a reference for practicing geophysicists and for other earth scientists who become closely involved with geophysical prospecting. I believe that it will be necessary for almost every practicing exploration geophysicist to have a copy available." EOS"...an excellent complete treatment of applied geophysics, useful both as a comprehensive textbook and as a basic reference. The knowledgable economic geologist can be well prepared for a variety of important applications of geophysical methods." Economic Geology"...a monumental text and reference in applied and exploration geophysics....well suited as a text for either a graduate or undergraduate course in general or exploration geophysics. The coverage is particularly good on the basic theories of the various methods and on the basics of field and data analysis procedure. It is a useful reference also for the professional, to recheck the fundamental equations in an area of interest, or to survey geophysical methods outside of his/her specialty." PAGEOPH"...a must for the libraries of explorationists involved in today’s integrated exploration programs. Individual chapters are excellent introductions to the methods as they might be taught in a coherent series of senior or first-year graduate geophysics courses." AAPG Bulletin"...an excellent text for both graduates and undergraduates. It is also a fine reference for the more seasoned geologist or geophysicist. No earth scientist’s bookshelf should be without it." Sven Treitel, American Scientist"This reviewer finds this book valuable not only for class teaching, but also for its ability to provide fundamental information on various exploration techniques to practicing geophysicists and engineers. The paperback is especially a good buy considering its high ’value to price’ ratio. If you are interested in applied geophysics, and if you do not already possess the first edition, this new edition is highly recommended." Albert T. Hsui, Journal of Geological Education

Even though this is not a textbook, I assign it to my senior-level class because it is such an essential reference for anyone doing any kind of geophysics. Yes, it is dated, but the info it does have is still valuable. I am also very glad that it is now available for Kindle readers!

This is an excellent technical book with good mathematics and details. This is a a very good Graduate level book. I really would prefer a hardback book. I am tired of publishers charging high prices for paperbacks. They do not last and fall apart. I particularly hate the oversize paperbacks. As an instructor I have made a policy of not using books that are not hardback. My students complain about paying high prices and having them trashed from use after 1 semester.

Telford is the boss. He derives most equations used by field geophysicists and offers great

descriptions of their main methods of analysis. If you have to buy a book on field geophysics, this is the one you should buy.

good book and a fair amount of detail if you need in depth information

The content of this book is beyond reproach - good, detailed solid technical info. That's why I bought it. It's a bit beyond me as a geologist but I won't outgrow its content and that suits me fine. I was disappointed by the publication quality though. I knew it was a paperback, but it seems a particularly flimsy paperboard, and for a book of this size and density, it really needs a hardback or a stiffer, tougher paperback cover. This is a working book which might end up in a field camp, and for US$70, I would appreciate a hardback. More importantly, the text quality is poor, as are the photos. I compared it to the original (which our office has a copy of) and it seems they have scanned the original publication and digitally printed it. The text has an annoying blur, just like photocopies, and the images (never the best in the original) are furthur degraded and contrasty.A for content, C for effort. B overall.

I first came across Telford during my Postgraduate days in Nigeria. It's has been my second bible ever since. It's a classical book in Applied Geophysics. It has no rival. I would encourage geophysicists world-wide to have a second look at the book, especially, professionals, postgraduate and undergraduate students. It's complete with modern references in Applied Geophysics.

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