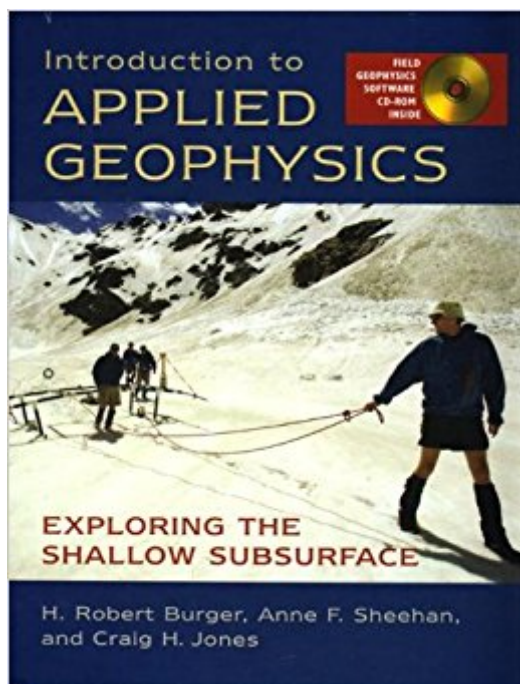


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# Introduction To Applied Geophysics: Exploring The Shallow Subsurface



## Synopsis

Introduction to Applied Geophysics covers the fundamental principles and common methods of exploration geophysics, preparing students for field study of the shallow subsurface. Offering a chapter on each of the most common methods of exploration, the text explains in detail how each method is performed and discusses that method's geologic, engineering, and environmental applications. In addition to ample examples, illustrations, and applications throughout, each chapter concludes with a problem set. The text is also accompanied by the Field Geophysics Software Suite, an innovative CD-ROM that allows students to experiment with refraction and reflection seismology, gravity, magnetics, electrical resistivity, and ground-penetrating radar methods of exploration.

## Book Information

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## Customer Reviews

H. Robert Burger is Achilles Professor of Geology at Smith College in Northampton, Massachusetts. His research focuses on the evolution of ancient mountain belts in southwestern Montana, applying geophysics to further elucidate the structural evolution of the Connecticut Valley in Massachusetts, and applies Geographic Information Systems (GIS) to mitigate natural hazards. Craig H. Jones is Associate Professor of Geological Sciences and Fellow of the Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado at Boulder. His research has focused on understanding the tectonics of continental areas, especially the western U. S., and on obtaining geophysical observations of those features. He teaches undergraduate and graduate courses in geology and geophysics and has developed and maintained geophysical software for more than 15

years. Anne F. Sheehan is Professor of Geological Sciences and Fellow of the Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado at Boulder. Her research focuses on the study of the crust and upper mantle of the Earth and its relation to tectonic deformation. She teaches undergraduate and graduate courses in geological sciences and geophysics, and has served as Director of the University of Colorado Geophysics Ph.D. program.

This textbook is a good resource to supplement an introductory geophysics course. It is sometimes a bit difficult to follow, but it is overall excellently formatted. There are a few formula errors in the book, so be aware of some equations seeming a bit off from what was described. I have noticed that some versions of the book come with an error sheet to help point out mistakes. I would recommend this text to any student taking an introductory geophysics course, or just needing an overview of the subject matter.

The software cd is a little funky and the programs don't work exactly as they should.... but overall the book and the cd it came with helped me pass my geophysics class.

Not a great book. Lots of typos, for example:  $7+5=8$  on a diagram (???) amongst other typos in equations. The software that comes with it is really buggy. They also do not include many example problems and all the diagrams are in black and white. I think color would really improve their readability.

Great Textbook.

As described

I really liked the book and it explained things well but I wish it had answers for more exercises. I had trouble with quite a few questions.

I had to have this because its a required text for one of my classes. It does what it meant to do.

it is required book for a class, good for general introduction of geophysics, covers most of geophysical method, not specific

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