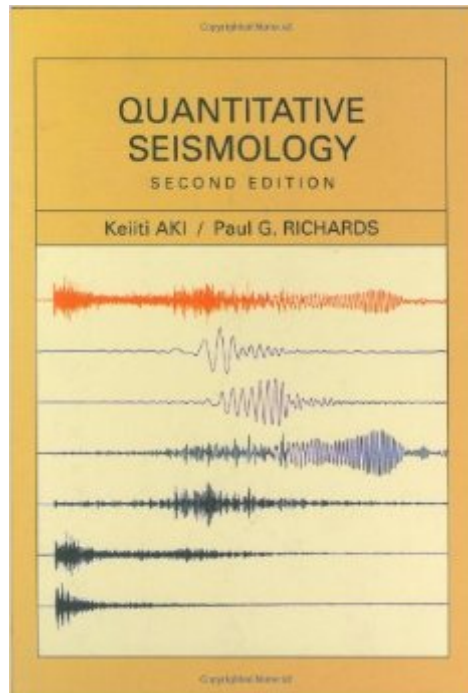


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Quantitative Seismology: Theory And Methods



Synopsis

This updated edition provides a unified treatment of seismological methods.

Book Information

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Customer Reviews

As a first year graduate student, this was the required text in my very first course in seismology! Boy was I intimidated! I had only taken calculus up through ODE's so much of the material in this book was difficult for me to comprehend. I had no clue what a Green's function was. However, I had a good professor and TA and took extensive notes to get by. Fortunately we only used chapters 2,3,4 and 5. Do yourself a favor if you have to use this book, and you're not a calc/physics guru, by obtaining the Stein/Wysession book. It is a lot more user friendly and application oriented. I used that book in a course the next semester on earthquake seismology and a lightbulb came on! I now understood better what Aki and Richards were talking about! I could go back to it as a reference to gain a deeper understanding. As they say, 'Quantitative Seismology' is the "bible" of the subject and so should be in your library. However, it is more of a reference for experienced users.

Many descriptions in seismology requires a complete understanding of the theory that support the seismological phenomena. Quantitative Seismology shows you all the fundamental concepts and prepare you for more advanced developments. Its not an introductory textbook, you need a formal background in physics and mathematics. The preface in 1st edition begins: "Seismology has matured as a quantitative science... and several specialized journals recorded this progress...", with this book you'll not obtain only the essentials of this progress; also the essentials of an enjoyable,

mature and complete science. For reference the table of contents: 1.- Introduction 2.- Basic Theorems in Dynamic Elasticity 3.- Representation of Seismic Sources 4.- Elastic Waves from a point of Dislocation Source 5.- Plane Waves in Homogeneous Media and their Reflection and Transmission at a Plane Boundary 6.- Reflection and Refraction of Spherical Waves; Lamb's Problem 7.- Surface Waves in a Vertically Heterogeneous Medium 8.- Free Oscillations of the Earth 9.- Body Waves in Media with depth-dependent properties 10.- The Seismic Source: Kinematics 11.- The Seismic Source: Dynamics 12.- Principles of Seismometry

This is a very good book. Well organized and in detail. Many topics that appeared in literature but not included in ordinary books are explained in a unified style by the authors.

See my review of Shearer's book. This is a more advanced book in more depth than the other five I have purchased. The difficulty level is 5 out of 5. It appears to be a classic. It would be a good book to take to bed if you can't sleep. I am still glad I purchased it.

This book is almost a necessity for every seismologist, but don't use it as a first text to learn the subject matter. I recommend using the boxes included in most chapters as learning examples. I found some of the most important insight from the problems. A solutions manual for these problems would further improve the text.

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