



Principles of Seismology

By Agustin Udías

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This textbook for upper division undergraduates and graduate students provides the ideal introduction to seismology. A student-friendly text fully details the fundamental concepts and includes a step-by-step development of the relevant mathematics. Beginning with clear examples of introductory topics such as one-dimensional problems and liquid media, the book goes on to cover most of the fundamental concepts in seismology. The author describes the application of seismology to the knowledge of the structure of the earth's interior and the origin and nature of earthquakes. Coverage includes seismic wave propagation, normal mode theory, ray theory approximation, body and surface waves, source mechanisms and kinematic and dynamic models. The book also contains appendices on useful mathematical tools and includes extensive problems that help students to understand the basic concepts in this area.

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Review

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"It contains everything I would want my graduate students to have as their initial core knowledge of seismology as they delve into their research. All concepts, both theoretical and observational, are concisely explained within a few pages, and descriptions are crisp and clear. Overall, the whole book is built on the accumulation of such concise, well-written short segments...It would be a good introduction for students who are to become well-balanced researchers." Physics Today

"bridges the gap to the more advanced books on seismology...The author has produced a very instructive textbook with considerable attention to educational value, as well as historical detail. The book is very well and consistently organized, with numerous illustrations, which makes it very suitable as a textbook for introductory seismology courses." Pure appl. geophys., Vol 158 2001

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