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Earthquakes, and Earth Structure is the textbook I've been waiting for. It combines the pedagogical strengths of Introduction to...

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1.1 Introduction. This book is an introduction to seismology, the study of elastic waves or sound waves in the solid earth. Conceptually, the subject is simple. Seismic waves are generated at a source, which can be natural, such as an earthquake, or artificial, such as an explosion.

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The book may say Introduction, but don't expect a "Seismology for Dummies" type set up. This book is actually quite advanced and detailed, jumping right into intricate math formulas. This is a great book for those already familiar with the basic concepts of seismology, however those with limited math skills or no prior knowledge of seismology will be turned away by the technicality of some aspects in the book.

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In an earthquake, the initial movement that causes seismic vibrations occurs when two sides of a fault suddenly slide past each other. A fault is a large fracture in rocks, across which the rocks have moved. Faults can be microscopic or hundreds-to-thousands of kilometers long and tens of kilometers deep.

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