

Fundamentals Of Seismic Wave Propagation

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Graduate-level textbook introducing the theory of seismic wave propagation in acoustic, elastic and anisotropic media. Fundamentals of Seismic Wave Propagation presents a comprehensive introduction to the propagation of high-frequency body-waves in elastodynamics. The theory of seismic wave propagation in acoustic, elastic and anisotropic media is developed to allow seismic waves to be modelled in complex, realistic three-dimensional Earth models. This book provides a consistent and thorough development of modelling methods widely used in elastic wave propagation ranging from the whole Earth, through regional and crustal seismology, exploration seismics to borehole seismics, sonics and ultrasonics. Particular emphasis is placed on developing a consistent notation and approach throughout, which highlights similarities and allows more complicated methods and extensions to be developed without difficulty. This book is intended as a text for graduate courses in theoretical seismology, and as a reference for all academic and industrial seismologists using numerical modelling methods. Exercises and suggestions for further reading are included in each chapter. EAN/ISBN : 9780511206771 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Chapman, Chris

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