



Seismic Waves and Sources

By Ari Ben-Menahem, Sarva Jit Singh

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This well-written, comprehensive text was the first book since 1879 invention of modern seismology to present earthquake seismology as a science firmly resting on its own theoretical foundations.

Covering more than 160 years in the history of the discipline, the authors trace the mathematical theory of seismic fields from first principles to modern developments, presenting a many-faceted, rigorous, and lucid account of the propagation of elastic waves in the earth. Earthquake waves receive the main emphasis; however, theories of gravity waves in water and acoustic-gravity waves in the atmosphere are also discussed. The entire spectral range of recorded wave phenomena receives in-depth quantitative assessments. Well illustrated with figures, tables, and solved examples, the text includes several useful appendixes.

In recent years, extensive advances in seismology, achieved through the use of modern computers and improved data acquisition systems, have produced tremendous progress in the knowledge of the earth's structure and the nature of earthquakes. The authors drew on those advances to produce this excellent textbook and reference, essential for students of seismology, geology, applied mathematics, and researchers in the earth sciences.

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