

Arrays and Array Methods in Global Seismology



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In recent years, the increased availability and fidelity of broadband seismic instruments have effectively narrowed the gap between exploration and global seismic applications. Global seismologists are now able to take advantage of high-resolution, often exploration-based, tools to examine rock properties tens to hundreds of kilometers below surface. This book reviews the key assumptions, algorithms and prospects of several important array-based methods in today's global and regional seismic surveys. A short list of topics includes data migration, PP and SS precursors, Radon transform, mantle triplication, P-to-S and S-to-P converted waves, shear-wave splitting, high-resolution seismic tomography, and ambient-noise interferometry. Each approach is presented in a 'cookbook' fashion for easy comparison, implementation and critique by the general readership.

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