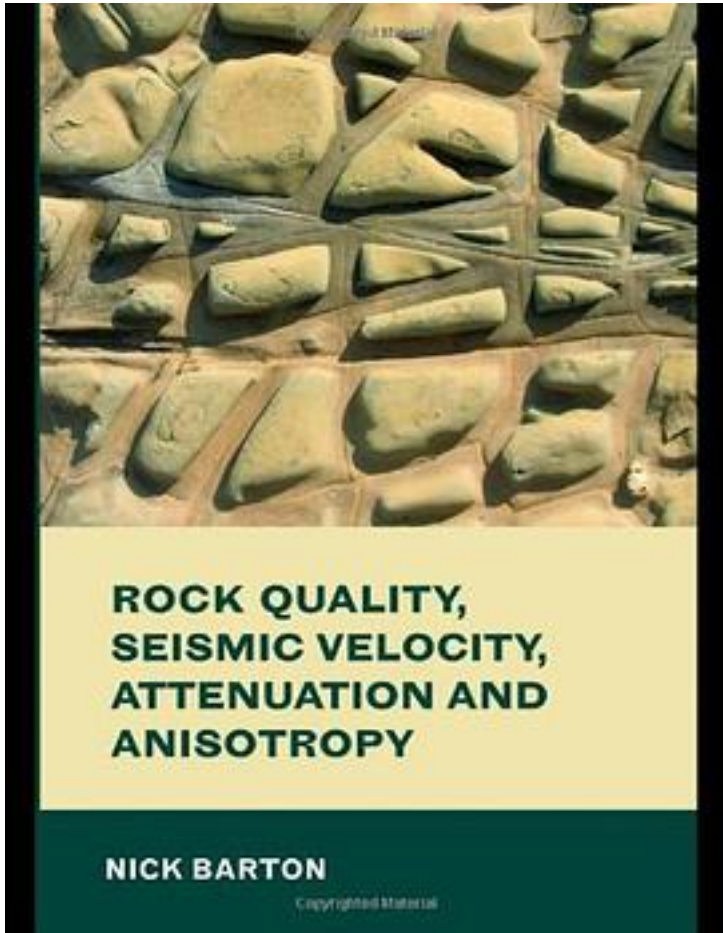


Rock Quality, Seismic Velocity, Attenuation and Anisotropy



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Seismic measurements take many forms, and have a universal role in the earth sciences. There are huge rewards, to be gained from 'seeing' below the earth's surface.

This book describes seismic behaviour at many scales, and provides the appropriate interpretation in terms of rock mechanics. Reviewing examples of seismic measurements from numerous fields in civil, mining, petroleum, geophysics, and tectonophysics, and stretching over ten orders of magnitude, the book considers seismic measurements from microcrack compliance in laboratory tests samples to crustal and mid-ocean ridge measurements, where the emphasis is on velocity-depth-age models. Between these extremes, Dr Barton covers in situ block tests, borehole stability, dam and bridge foundations, quarry blasting, transportation tunnels, rock caverns, nuclear waste repository studies and mine openings. The approach is cross-disciplinary and deliberately non-mathematical and phenomenological in nature, with a wealth of figures and a wide review of the literature from many earth science fields. It is intended for students, consultants and university teachers studying and working in the fields of civil, mining and petroleum engineering, and is particularly relevant to geophysicists, engineering geologists and geologists who are engaged in the interpretation of seismic measurements on rock engineering and petroleum engineering projects.

作者介绍:

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