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Autore	Sophocles <5. sec. a.C.>
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2. Record Nr.	UNINA9910983083003321
Autore	Fan Lifeng
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Altri autori (Persone)	WangMeng DuXiuli
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## Nota di contenuto

Introduction -- Basic theory of stress wave -- Two-characteristic-line method for the wave propagation through intact rock -- Two-characteristic-line method for the wave propagation through joint -- Two-characteristic-line method for the wave propagation through complex stratus rock mass -- Two-characteristic-line method for the wave propagation through complex stratus rock mass with parallel joints -- Three characteristic line method for the wave propagation through micro-defected rock mass -- Split three characteristic line method for stress wave propagation through rock mass with double-scale discontinuities -- Dual-mesh three-characteristic-line method for stress wave propagation through the micro-defected rock mass with a thin layer filled macro-joint.

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## Sommario/riassunto

This book is written by subject experts based on the latest research results on the characteristic line method of stress wave propagation in rock masses. It establishes a framework for stress wave propagation analysis methods under three levels of rocks, joints and rock masses. It introduces the two-characteristic line method for stress wave propagation in rocks, and further illustrates the modified characteristic line method for stress wave propagation in complex jointed rock masses. The split three-characteristic line method was proposed for stress wave propagation in rock masses with macro-joints and micro-defects. The book focuses on the basic theory, and highlights the ideas, methods and steps to solve the problem of stress wave propagation in rock masses. This book can be used as a reference book for researchers of research institutes engaged in analyzing, predicting and controlling dynamic stability in rock, geological, and mining engineering.

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