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Collana	Inverse and ill-posed problems series
Disciplina	530.12/4
Soggetti	Wave-motion, Theory of Electronic books.
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front matter -- Contents -- Introduction -- Chapter 1. One-dimensional inverse problems -- Chapter 2. Theory of inverse problems for wave processes in layered media -- Chapter 3. Inverse problems for vector wave processes -- Bibliography
Sommario/riassunto	This monograph covers dynamical inverse problems, that is problems whose data are the values of wave fields. It deals with the problem of determination of one or more coefficients of a hyperbolic equation or a system of hyperbolic equations. The desired coefficients are functions of point. Most attention is given to the case where the required functions depend only on one coordinate. The first chapter of the book deals mainly with methods of solution of one-dimensional inverse problems. The second chapter focuses on scalar inverse problems of wave propagation in a layered medium. In the final chapter inverse problems for elasticity equations in stratified media and acoustic equations for moving media are given.