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Nota di contenuto	Frontmatter -- Preface -- Contents -- Main definitions and notations -- Introduction -- Chapter 1. Finite-difference scheme inversion -- Chapter 2. Linearized multidimensional inverse problem for the wave equation -- Chapter 3. Methods of I. M. Gel'fand, . M. Levitan and M. G. Krein -- Chapter 4. Boundary control method -- Chapter 5. Projection method -- Appendix A -- Appendix -- Bibliography
Sommario/riassunto	The authors consider dynamic types of inverse problems in which the additional information is given by the trace of the direct problem on a (usually time-like) surface of the domain. They discuss theoretical and numerical background of the finite-difference scheme inversion, the linearization method, the method of Gel'fand-Levitan-Krein, the boundary control method, and the projection method and prove theorems of convergence, conditional stability, and other properties of the mentioned methods.