

1. Record Nr.	UNINA9910788956803321
Autore	Atakhodzhaev M. A (Mukarram Atakhodzhaevich)
Titolo	Ill-posed internal boundary value problems for the biharmonic equation // M.A. Atakhodzhaev
Pubbl/distr/stampa	Utrecht ; ; Boston : , : VSP, , 2002
ISBN	3-11-094481-2
Edizione	[Reprint 2014]
Descrizione fisica	1 online resource (166 p.)
Collana	Inverse and ill-posed problems series, , 1381-4524
Disciplina	515/.353
Soggetti	Differential equations, Partial - Improperly posed problems Boundary value problems Biharmonic equations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front matter -- Preface -- Contents -- Introduction -- Chapter 1. The first internal boundary value problem -- Chapter 2. The second internal boundary value problem -- Chapter 3. The third internal boundary value problem -- Chapter 4. Internal boundary value problems and the Cauchy problem for the abstract biharmonic equation -- Chapter 5. Appendices -- Bibliography
Sommario/riassunto	Internal boundary value problems deals with the problem of determining the solution of an equation if data are given on two manifolds. One manifold is the domain boundary and the other manifold is situated inside the domain. This monograph studies three essentially ill-posed internal boundary value problems for the biharmonic equation and the Cauchy problem for the abstract biharmonic equation, both qualitatively and quantitatively. In addition, some variants of these problems and the Cauchy problem, as well as the m-dimensional case, are considered. The author introduces some new notions, such as the notion of complete solvability.