

1. Record Nr.	UNINA9910463651403321
Autore	Ivanov Valentin Konstantinovich
Titolo	Theory of linear ill-posed problems and its applications // V.K. Ivanov, V.V. Vasin and V.P. Tanana
Pubbl/distr/stampa	Utrecht ; ; Boston : , : VSP, , 2002
ISBN	3-11-094482-0
Edizione	[Reprint 2013]
Descrizione fisica	1 online resource (295 p.)
Collana	Inverse and Ill-Posed Problems Series ; ; 36 Inverse and ill-posed problems series
Altri autori (Persone)	VasinV. V TananaVitalii Pavlovich
Disciplina	295
Soggetti	Operator equations Integral operators Numerical analysis - Improperly posed problems Electronic books.
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 (pages [243]-277) and index.
Nota di contenuto	Frontmatter -- Preface to the Second Edition -- Preface -- Contents -- Introduction -- Chapter 1. Well-posedness of problems -- Chapter 2. Regularizing family of operators and sets of uniform regularization -- Chapter 3. Basic techniques for constructing regularizing algorithms -- Chapter 4. Optimality and stability of methods for solving ill-posed problems. Error estimation -- Chapter 5. Determination of values of unbounded operators -- Chapter 6. Finite-dimensional approximation of regularizing algorithms -- Bibliography -- Additional Bibliography to the Second Edition -- Comments to Additional Bibliography -- Index
Sommario/riassunto	This monograph is a revised and extended version of the Russian edition from 1978. It includes the general theory of linear ill-posed problems concerning e. g. the structure of sets of uniform regularization, the theory of error estimation, and the optimality method. As a distinguishing feature the book considers ill-posed problems not only in Hilbert but also in Banach spaces. It is natural that since the appearance of the first edition considerable progress has been made in the theory of inverse and ill-posed problems as well as in its applications. To reflect these accomplishments the authors included

additional material e. g. comments to each chapter and a list of
monographs with annotations.
