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Titolo	Theory of linear ill-posed problems and its applications / / V.K. Ivanov, V.V. Vasin and V.P. Tanana
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Collana	Inverse and Ill-Posed Problems Series ; ; 36 Inverse and ill-posed problems series
Altri autori (Persone)	VasinV. V TananaVitalii Pavlovich
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Soggetti	Operator equations Integral operators Numerical analysis - Improperly posed problems Electronic books.
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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.
