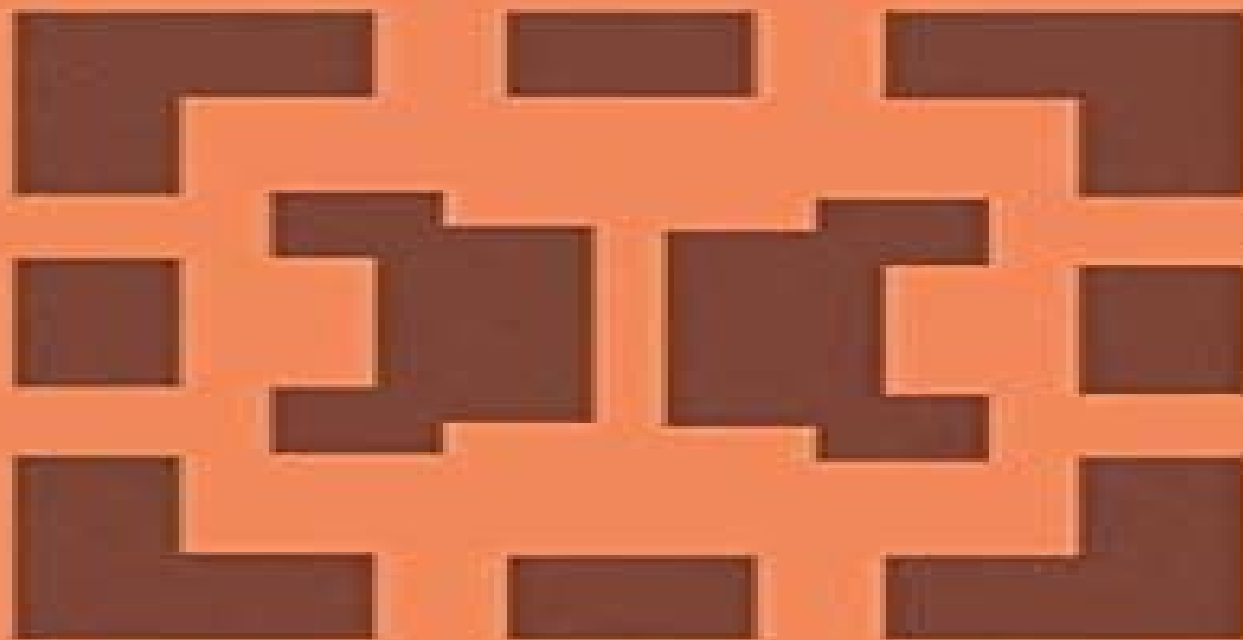


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# Regularization of Ill-Posed Problems by Iteration Methods



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# Regularization Of Ill Posed Problems By Iteration Methods

**Ioannis Konstantinos Argyros, Angel  
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Bakushinsky, M.Yu. Kokurin, 2007-09-28 This volume presents a unified approach to constructing iterative methods for solving irregular operator equations and provides rigorous theoretical analysis for several classes of these methods. The analysis of methods includes convergence theorems as well as necessary and sufficient conditions for their convergence at a given rate. The principal groups of methods studied in the book are iterative processes based on the technique of universal linear approximations, stable gradient type processes and methods of stable continuous approximations. Compared to existing monographs and textbooks on ill posed problems, the main distinguishing feature of the presented approach is that it doesn't

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**Mathematical Reviews** ,2005      **Inverse und schlecht gestellte Probleme** Alfred Karl Louis,1989 Inverse Probleme treten bei der Bestimmung der ein System beschreibenden Parameter aus Beobachtungen des Systems auf Ein Beispiel hierfür ist die Identifizierung einer Black Box aus Input und Output Ist der Input die Intensität eines Röntgenstrahles und der Output die Intensität des Strahles nach Durchlaufen eines Körpers so kann man aus vielen Strahlen etwa einer halben Million in der Computer Tomographie die Dichte des durchlaufenen Körpergewebes berechnen Von der physikalischen Annahme hängt das mathematische Modell also die zu behandelnde Gleichung abo All diesen inversen Problemen gemein ist daß die Daten wegen der unvermeidbaren Meßfehler nie exakt gegeben sind Leider auch gemein ist diesen Problemen daß die Datenfehler in der Lösung verstärkt werden Die von Hadamard eingeführte Bezeichnung schlecht gestellte Probleme ist irreführend die mathematische Beschreibung eines realen inversen Problems spiegelt natürlich auch die praktisch vorhandene Instabilität wider Die reizvolle Aufgabe ist nun eine Näherungslösung möglicherweise unter Zuhilfenahme zusätzlicher Information so zu bestimmen daß die Datenfehler sich nicht über ein unvermeidbares Maß hinaus verstärken Das Titelbild zeigt eine glatte Kurve welche die exakte Lösung eines ungestörten schlecht gestellten Problems darstellt Die wild oszillierende Funktion ergibt sich bei fast naiver Lösung ohne Berücksichtigung der Schlechtgestellttheit Abbildung 5 1 1 zeigt die wirklich naive Lösung die keine erkennbare Darstellung der anderen Funktionen bei gleichem Maßstab gestattet

**Ill-Posed Problems With a Priori Information** V. V. Vasin,A. L. Ageev,1995 The Inverse and Ill Posed Problems Series is a series of monographs publishing postgraduate level information on inverse and ill posed problems for an international readership of professional scientists and researchers The series aims to publish works which involve both theory and applications in e g physics medicine geophysics acoustics electrodynamics tomography and ecology      Non-iterative Methods for Solving Operator Equations of the First Kind John W. Hilgers,1973 The paper compares the reproducing kernel Hilbert space method for solving integral equations of the first kind with Tihonov regularization The methods are theoretically identical and differ in practice only in the way discretization is introduced Numerical examples are given Author

**Regularization Methods for Ill-posed Problems** Arthur Neuman,2010 This thesis examines solution methods for large linear systems of equations with a matrix of ill determined rank and an error contaminated right hand side The numerical solution is delicate because the matrix is very ill conditioned and may be singular To solve such systems one replaces the system with one that is less sensitive to error a process known as regularization This thesis focuses on the regularization method known as truncated iteration A new algorithm is presented and compared to other existing methods      *SIAM Journal on Numerical Analysis* ,2001-02      Chinese Journal of Contemporary Mathematics ,2000      **Moscow University**

**Computational Mathematics and Cybernetics** Moskovskii gosudarstvennyi universitet im. M.V. Lomonosova,1995

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