

|                         |                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Record Nr.           | UNINA9911075244503321                                                                                                                                                                                                                                                                                                                         |
| Titolo                  | In the Senate of the United States. April 12, 1858. Agreed to, and ordered to be printed. Mr. Mallory submitted the following report. The Committee on Naval Affairs, to whom was referred the petition of Samuel James, Ignatius Lucas, Charles Lilley, and Thomas S. Bingeey, have had the same under consideration, and thereupon report . |
| Pubbl/distr/stampa      | Washington, DC : , : [publisher not identified], , 1858                                                                                                                                                                                                                                                                                       |
| Descrizione fisica      | 1 online resource (2 pages)                                                                                                                                                                                                                                                                                                                   |
| Collana                 | Senate report / 35th Congress, 1st session. Senate ; ; no. 173<br>[United States congressional serial set] ; ; [serial set no. 939]                                                                                                                                                                                                           |
| Altri autori (Persone)  | MalloryStephen R <1813-1873> (Stephen Russell), (Democrat (FL))                                                                                                                                                                                                                                                                               |
| Soggetti                | Claims<br>Military pay<br>Watchmen<br>Legislative materials.                                                                                                                                                                                                                                                                                  |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                       |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                            |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                    |
| Note generali           | Title from opening lines of text.<br>Batch processed record: Metadata reviewed, not verified. Some fields updated by batch processes.<br>FDLP item number not assigned.                                                                                                                                                                       |

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. Record Nr.           | UNINA9911100807603321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Autore                  | Kabanikhin S. I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Titolo                  | Inverse and ill-posed problems : theory and applications / / Sergey I. Kabanikhin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Pubbl/distr/stampa      | Berlin ; ; Boston, : De Gruyter, c2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ISBN                    | 9783110224016<br>3110224011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Edizione                | [1st ed.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Descrizione fisica      | 1 online resource (475 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Collana                 | Inverse and ill-posed problems series, , 1381-4524 ; ; 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Classificazione         | SK 950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Disciplina              | 515/.357<br>515.3570000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Soggetti                | Inverse problems (Differential equations)<br>Boundary value problems - Improperly posed problems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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 and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Nota di contenuto       | Frontmatter -- Preface / Kabanikhin, Sergey I. -- Denotations -- Contents -- Chapter 1. Basic concepts and examples -- Chapter 2. Ill-posed problems -- Chapter 3. Ill-posed problems of linear algebra -- Chapter 4. Integral equations -- Chapter 5. Integral geometry -- Chapter 6. Inverse spectral and scattering problems -- Chapter 7. Linear problems for hyperbolic equations -- Chapter 8. Linear problems for parabolic equations -- Chapter 9. Linear problems for elliptic equations -- Chapter 10. Inverse coefficient problems for hyperbolic equations -- Chapter 11. Inverse coefficient problems for parabolic and elliptic equations -- Appendix A -- Appendix B -- Epilogue -- Bibliography -- Index |
| Sommario/riassunto      | The theory of ill-posed problems originated in an unusual way. As a rule, a new concept is a subject in which its creator takes a keen interest. The concept of ill-posed problems was introduced by Hadamard with the comment that these problems are physically meaningless and not worthy of the attention of serious researchers. Despite Hadamard's pessimistic forecasts, however, his unloved "child" has turned into a powerful theory whose results are used in many fields of pure and applied mathematics. What is the secret of its success? The answer is clear. Ill-posed problems occur everywhere and it is                                                                                              |

unreasonable to ignore them. Unlike ill-posed problems, inverse problems have no strict mathematical definition. In general, they can be described as the task of recovering a part of the data of a corresponding direct (well-posed) problem from information about its solution. Inverse problems were first encountered in practice and are mostly ill-posed. The urgent need for their solution, especially in geological exploration and medical diagnostics, has given powerful impetus to the development of the theory of ill-posed problems. Nowadays, the terms "inverse problem" and "ill-posed problem" are inextricably linked to each other. Inverse and ill-posed problems are currently attracting great interest. A vast literature is devoted to these problems, making it necessary to systematize the accumulated material. This book is the first small step in that direction. We propose a classification of inverse problems according to the type of equation, unknowns and additional information. We consider specific problems from a single position and indicate relationships between them. The problems relate to different areas of mathematics, such as linear algebra, theory of integral equations, integral geometry, spectral theory and mathematical physics. We give examples of applied problems that can be studied using the techniques we describe. This book was conceived as a textbook on the foundations of the theory of inverse and ill-posed problems for university students. The author's intention was to explain this complex material in the most accessible way possible. The monograph is aimed primarily at those who are just beginning to get to grips with inverse and ill-posed problems but we hope that it will be useful to anyone who is interested in the subject.

---