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| 1. Record Nr.           | UNISA990005863050203316                              |
| Titolo                  | Retrieving the big society / edited by Jason Edwards |
| Pubbl/distr/stampa      | Malden, MA : Wiley-Blackwell, 2012                   |
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| Soggetti                | Politica - Inghilterra                               |
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| 2. Record Nr.           | UNINA9910787072703321   |
| Autore                  | Haslinger Friedrich   |
| Titolo                  | The D-bar Neumann problem and Schrodinger operators // Friedrich Haslinger  |
| Pubbl/distr/stampa      | Berlin, [Germany] ; ; Boston, [Massachusetts] : , : De Gruyter, , 2014<br>©2014   |
| ISBN                    | 3-11-037783-7<br>3-11-031535-1  |
| Descrizione fisica      | 1 online resource (254 p.)  |
| Collana                 | De Gruyter Expositions in Mathematics, , 0938-6572 ; ; Volume 59  |
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| Soggetti                | Neumann problem<br>Schrodinger operator   |
| 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       | Front matter -- Preface -- Contents -- 1. Bergman spaces -- 2. The canonical solution operator to -- 3. Spectral properties of the canonical solution operator to -- 4. The complex -- 5. Density of smooth forms |

-- 6. The weighted complex -- 7. The twisted complex -- 8. Applications -- 9. Spectral analysis -- 10. Schrödinger operators and Witten-Laplacians -- 11. Compactness -- 12. The Neumann operator and the Bergman projection -- 13. Compact resolvents -- 14. Spectrum of on the Fock space -- 15. Obstructions to compactness -- Bibliography -- Index -- Backmatter

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## Sommario/riassunto

The topic of this book is located at the intersection of complex analysis, operator theory and partial differential equations. It begins with results on the canonical solution operator to  $\bar{\partial}$  restricted to Bergman spaces of holomorphic  $\bar{\partial}$ -functions in one and several complex variables. These operators are Hankel operators of special type. In the following the general complex is investigated on  $\bar{\partial}$ -spaces over bounded pseudoconvex domains and on weighted  $\bar{\partial}$ -spaces. The main part is devoted to the spectral analysis of the complex Laplacian and to compactness of the Neumann operator. The last part contains a detailed account of the application of the methods to Schrödinger operators, Pauli and Dirac operators and to Witten-Laplacians. It is assumed that the reader has a basic knowledge of complex analysis, functional analysis and topology. With minimal prerequisites required, this book provides a systematic introduction to an active area of research for both students at a bachelor level and mathematicians.

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