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| 1. Record Nr. | UNINA9910780880103321 |
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| Titolo | Nonstandard methods in functional analysis [[electronic resource]] : lectures and notes / / Siu-Ah Ng |
| Pubbl/distr/stampa | Singapore ; ; Hackensack, NJ, : World Scientific, c2010 |
| ISBN | 1-282-76154-4 9786612761546 981-4287-55-5 |
| Descrizione fisica | 1 online resource (340 p.) |
| Disciplina | 515/.7 |
| Soggetti | Functional analysis Nonstandard mathematical analysis |
| 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 | Preface; Convention and Symbols; List of Theorems; Contents; 1. Nonstandard Analysis; 2. Banach Spaces; 3. Banach Algebras; 4. Selected Research Topics; Suggestions for Further Reading; Bibliography; Index |
| Sommario/riassunto | In the early 1960's, by using techniques from the model theory of first-order logic, Robinson gave a rigorous formulation and extension of Leibniz' infinitesimal calculus. Since then, the methodology has found applications in a wide spectrum of areas in mathematics, with particular success in the probability theory and functional analysis. In the latter, fruitful results were produced with Luxemburg's invention of the nonstandard hull construction. However, there is still no publication of a coherent and self-contained treatment of functional analysis using methods from nonstandard analysis. |