

| | |
|-------------------------|--|
| 1. Record Nr. | UNINA9910483618503321 |
| Autore | Runde Volker |
| Titolo | Amenable Banach Algebras [[electronic resource]] : A Panorama / / by Volker Runde |
| Pubbl/distr/stampa | New York, NY : , : Springer New York : , : Imprint : Springer, , 2020 |
| ISBN | 1-0716-0351-5 |
| Edizione | [1st ed. 2020.] |
| Descrizione fisica | 1 online resource (XVII, 462 p. 34 illus.) |
| Collana | Springer Monographs in Mathematics, , 1439-7382 |
| Disciplina | 512.55 |
| Soggetti | Functional analysis Harmonic analysis Operator theory Functional Analysis Abstract Harmonic Analysis Operator Theory |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Preface -- List of Symbols -- Introduction -- 0 Paradoxical Decompositions -- 1 Amenable, Locally Compact Groups -- 2 Amenable Banach Algebras -- 3 Examples -- 4 Amenability-Like Properties -- 5 Dual Banach Algebras -- 6 Banach Homological Algebra -- 7 Operator Algebras on Hilbert Spaces -- 8 Operator Amenability -- A Banach Spaces -- B Banach Algebras -- C C^* - and Neumann Algebras -- D Abstract Harmonic Analysis -- E Operator Spaces -- F Fourier and Fourier-Stieltjes Algebras -- References -- Index of Names -- Index. |
| Sommario/riassunto | This volume provides readers with a detailed introduction to the amenability of Banach algebras and locally compact groups. By encompassing important foundational material, contemporary research, and recent advancements, this monograph offers a state-of-the-art reference. It will appeal to anyone interested in questions of amenability, including those familiar with the author's previous volume <i>Lectures on Amenability</i> . Cornerstone topics are covered first: namely, the theory of amenability, its historical context, and key properties of amenable groups. This introduction leads to the amenability of Banach algebras, which is the main focus of the book. Dual Banach algebras are |

given an in-depth exploration, as are Banach spaces, Banach homological algebra, and more. By covering amenability's many applications, the author offers a simultaneously expansive and detailed treatment. Additionally, there are numerous exercises and notes at the end of every chapter that further elaborate on the chapter's contents. Because it covers both the basics and cutting edge research, *Amenable Banach Algebras* will be indispensable to both graduate students and researchers working in functional analysis, harmonic analysis, topological groups, and Banach algebras. Instructors seeking to design an advanced course around this subject will appreciate the student-friendly elements; a prerequisite of functional analysis, abstract harmonic analysis, and Banach algebra theory is assumed.
