Record Nr. UNINA9910838278103321 Autore Dales Harold Garth Titolo Banach Function Algebras, Arens Regularity, and BSE Norms [[electronic resource] /] / by Harold Garth Dales, Ali Ülger Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2024 **ISBN** 3-031-44532-5 Edizione [1st ed. 2024.] Descrizione fisica 1 online resource (452 pages) Collana CMS/CAIMS Books in Mathematics, , 2730-6518; ; 12 ÜlgerAli Altri autori (Persone) Disciplina 515.7 Functional analysis Soggetti Measure theory Algebras, Linear **Functional Analysis** Measure and Integration Linear Algebra Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Nota di contenuto Banach spaces and operators -- Banach algebras -- Banach function algebras -- Banach algebras on locally compact groups -- BSE norms and BSE algebras -- Arens regularity. Sommario/riassunto This book is about semisimple Banach algebras with a focus on those that are commutative. After laying out the necessary background material from functional analysis, geometry of Banach spaces and measure theory, we introduce many specific Banach algebras from operator theory, harmonic analysis, and function theory and study their basic properties. Some of the questions dealt with in the book are: Whether the introduced Banach algebras are BSE-algebras, whether they have BSE norms, whether they have the separating ball property or some variant of it, and whether they are Arens regular. The book contains guite a few new results, as well as new proofs of a good many known results. The book is intended for those who are preparing to work in Banach algebras or who have been doing research in related

areas.