1.	Record Nr.	UNINA9910299770103321
	Autore	Cho Yeol Je
	Titolo	Stability of functional equations in Banach algebras / / by Yeol Je Cho, Choonkil Park, Themistocles M. Rassias, Reza Saadati
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
	ISBN	3-319-18708-2
	Edizione	[1st ed. 2015.]
	Descrizione fisica	1 online resource (353 p.)
	Disciplina	510
	Soggetti	Difference equations
		Functional equations
		Operator theory
		Differential equations
		Difference and Functional Equations
		Operator Theory
		Ordinary Differential Equations
	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	1. Introduction. - 2. Stability of Functional Equations in Banach Algebras -- 3. Stability of Functional Equations in C*-Algebras. - 4. Stability of Functional Inequalities in Banach Algebras. - 5. Stability of Functional Equations in C*-Ternary Algebras. - 6. Stability of Functional Equations in Multi-Banach Algebras. - 7. Stability of Functional Equations in Non-Archimedean Banach Algebras -- References -- Index.
	Sommario/riassunto	Some of the most recent and significant results on homomorphisms and derivations in Banach algebras, quasi-Banach algebras, C*-algebras, C*-ternary algebras, non-Archimedean Banach algebras and multi-normed algebras are presented in this book. A brief introduction for functional equations and their stability is provided with historical remarks. Since the homomorphisms and derivations in Banach algebras are additive and R-linear or C-linear, the stability problems for additive functional equations and additive mappings are studied in detail. The latest results are discussed and examined in stability theory for new

functional equations and functional inequalities in Banach algebras and C*-algebras, non-Archimedean Banach algebras, non-Archimedean C*-algebras, multi-Banach algebras and multi-C*-algebras. Graduate students with an understanding of operator theory, functional analysis, functional equations and analytic inequalities will find this book useful for furthering their understanding and discovering the latest results in mathematical analysis. Moreover, research mathematicians, physicists and engineers will benefit from the variety of old and new results, as well as theories and methods presented in this book.