Record Nr. UNINA9910778425703321 Autore Stamova Ivanka Titolo Stability analysis of impulsive functional differential equations [[electronic resource] /] / by Ivanka Stamova Berlin,: De Gruyter, 2009 Pubbl/distr/stampa **ISBN** 1-282-71718-9 9786612717185 3-11-022182-9 Descrizione fisica 1 online resource (240 p.) Collana de Gruyter expositions in mathematics; ; 52 Classificazione SK 520 SK 600 Disciplina 515/.35 Soggetti Impulsive differential equations Stability Lyapunov functions Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Frontmatter -- Contents -- Chapter 1. Introduction -- Chapter 2. Lyapunov stability and boundedness -- Chapter 3. Extensions of stability and boundedness theory -- Chapter 4. Applications --Backmatter Sommario/riassunto This book is devoted to impulsive functional differential equations which are a natural generalization of impulsive ordinary differential equations (without delay) and of functional differential equations (without impulses). At the present time the qualitative theory of such equations is under rapid development. After a presentation of the fundamental theory of existence, uniqueness and continuability of solutions, a systematic development of stability theory for that class of problems is given which makes the book unique. It addresses to a wide

audience such as mathematicians, applied research