1.	Record Nr.	UNINA9910299980303321
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	Titolo	Regularity of difference equations on Banach spaces [[electronic resource] /] / by Ravi P. Agarwal, Claudio Cuevas, Carlos Lizama
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
	ISBN	3-319-06447-9
	Edizione	[1st ed. 2014.]
	Descrizione fisica	1 online resource (218 p.)
	Disciplina	515.7 515.732
	Soggetti	Difference equations Functional equations Discrete mathematics Difference and Functional Equations Discrete Mathematics
	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. Discrete Semi groups and Cosine Operators -- 2. Maximal regularity and the method of Fourier Multipliers -- 3. First Order Linear Difference Equations -- 4. First Order Semi linear Difference Equations -- 5. Second Order Linear Difference Equations -- 6. Second Order Semi linear -- 7. Applications.
	Sommario/riassunto	This work introduces readers to the topic of maximal regularity for difference equations. The authors systematically present the method of maximal regularity, outlining basic linear difference equations along with relevant results. They address recent advances in the field, as well as basic semigroup and cosine operator theories in the discrete setting. The authors also identify some open problems that readers may wish to take up for further research. This book is intended for graduate students and researchers in the area of difference equations, particularly those with advance knowledge of and interest in functional analysis.