1.	Record Nr.	UNINA9910338252403321
	Autore	Gal Sorin G
	Titolo	Quaternionic Approximation : With Application to Slice Regular Functions / / by Sorin G. Gal, Irene Sabadini
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2019
	ISBN	3-030-10666-7
	Edizione	[1st ed. 2019.]
	Descrizione fisica	1 online resource (228 pages)
	Collana	Frontiers in Mathematics, , 1660-8054
	Disciplina	511.4
	Soggetti	Functions of complex variables Approximation theory Functions of a Complex Variable Approximations and Expansions
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Preliminaries on Hypercomplex Analysis -- Approximation of Continuous Functions -- Approximation by Bernstein and Convolution Type Operators -- Approximation of Slice Regular Functions in Compact Sets -- Overconvergence, Equiconvergence and Universality Properties -- Inequalities for Quaternionic Polynomials -- Approximation of nullsolutions of generalized Cauchy-Riemann operators.
	Sommario/riassunto	This book presents the extensions to the quaternionic setting of some of the main approximation results in complex analysis. It also includes the main inequalities regarding the behavior of the derivatives of polynomials with quaternionic cofficients. With some few exceptions, all the material in this book belongs to recent research of the authors on the approximation of slice regular functions of a quaternionic variable. The book is addressed to researchers in various areas of mathematical analysis, in particular hypercomplex analysis, and approximation theory. It is accessible to graduate students and suitable for graduate courses in the above framework.