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Titolo	Modern Trends in Hypercomplex Analysis / / edited by Swanhild Bernstein, Uwe Kähler, Irene Sabadini, Franciscus Sommen
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Descrizione fisica	1 online resource (VII, 310 p. 20 illus., 3 illus. in color.)
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Disciplina	510
Soggetti	Functions of complex variables Topological groups Lie groups Functions of a Complex Variable Topological Groups and Lie Groups Several Complex Variables and Analytic Spaces
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Cauchy–Pompeiu Formula for Multi-meta-weighted-monogenic Functions of first class -- Greedy Algorithms and Rational Approximation in One and Several Variables -- A. Kolmogorov and M. Riesz Theorems for Octonion-valued Monogenic Functions -- Compressed Sensing with Nonlinear Fourier Atoms -- Script Geometry -- A Panorama on Quaternionic Spectral Theory and Related Functional Calculi -- Models for Some Irreducible Representations of $so(m, C)$ in Discrete Clifford Analysis -- Gegenbauer Type Polynomial Solutions for the Higher Spin Laplace Operator -- A New Cauchy Type Integral Formula for Quaternionic $k$ -hypermonogenic Functions -- Eigenfunctions and Fundamental Solutions of the Caputo Fractional Laplace and Dirac Operators -- Three-dimensional Analogue of Kolosov–Muskhelishvili Formulae -- On Some Properties of Pseudo-complex Polynomials -- Slice Regular Functions on Regular Quadratic Cones of Real Alternative Algebras -- Differential Forms and Clifford Analysis -- Examples of Morphological Calculus.
Sommario/riassunto	This book contains a selection of papers presented at the session

"Quaternionic and Clifford Analysis" at the 10th ISAAC Congress held in Macau in August 2015. The covered topics represent the state-of-the-art as well as new trends in hypercomplex analysis and its applications.

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