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| Nota di contenuto       | - 1. Peculiar Behaviors of Functions in q-Calculus -- 2. An introduction to the fine structures on the S-spectrum -- 3. Recovering Composition Algebras from 3D Geometric Algebras -- 4. Characteristics of - Hypermonogenic Functions -- 5. Quaternion Hyperbolic Transforms of the Fourier type - An Overview -- 6. Examples for Rebricking -- 7. Discrete Borel-Pompeiu and Cauchy formulae on a rectangular lattice for bounded domains in R2 -- 8. Clifford-Valued B-Splines -- 9. On Clifford Geometric Space-Time Algebras and Symmetries -- 10. Octonionic Hilbert spaces and para-linear operators -- 11. The discrete octonionic Stokes' formula revisited -- 12. An estimate for the dimension of the Kernel of a Singular Integral Operator with two Shifts and Conjugation -- 13. A Bernstein-type inequality for the generalized Dunkl translation -- 14. A zeta function for the bicomplex algebra -- |

15. On Grade Automorphism in Ternary Clifford Algebras -- 16.  
Fractional Polyanalyticity.

Sommario/riassunto

This book contains a collection of short papers based on the presentations given at the international conference on Hypercomplex Analysis and its Applications celebrating Paula Cerejeiras' 60th birthday. These papers present the latest results as well as overviews on specific topics in the areas of hypercomplex and harmonic analysis as well as their connections with partial differential equations and spectral theory.