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Titolo	Qualitative computing [[electronic resource]] : a computational journey into nonlinearity / / Francoise Chatelin
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Pour mes enfants, petits et grands; Preface; Contents; 7. Homotopic Deviation in Linear Algebra; 1. Introduction to Qualitative Computing; 1.1 The art of computing before the 20th century; 1.1.1 Numeracy is not ubiquitous; 1.1.2 An irrational consequence of nonlinearity; 1.1.3 Zero: Thinking the unthinkable; 1.1.4 v1-: A complex consequence of nonlinearity; 1.1.5 Infinity: Decoding divergent series; 1.2 The unending evolution of logic due to complexification; 1.2.1 Classical analysis; 1.2.2 The creative role of zero; 1.2.3 The evolutive pressure of paradoxes on logic 1.2.4 Hypercomplex numbers of dimension $2k$, k (1843 1912)1.3 The 20th century; 1.3.1 A paradigm shift; 1.3.2 Fixing the laws of logic a priori; 1.3.3 The eclipse of the art of computing; 1.3.4 The rise of numerical linear algebra; 1.3.5 Contemporary experimental sciences; 1.4 Back to the art of computing; 1.4.1 Hypercomputation in Dickson algebras; 1.4.2 Homotopic Deviation in associative linear algebra over C ; 1.4.3 Understanding why and explaining how; 1.4.4 Qualitative Computing; 2. Hypercomputation in Dickson Algebras; 2.1 Associativity in algebra; 2.1.1 Groups, rings and fields 2.1.2 Real algebras 2.2 Dickson algebras over the real field; 2.2.1 The

doubling process of Dickson (1912); 2.2.2 "Complexification" of A_{k-1} : $A_k = A_{k-1} \otimes A_{k-1}$; , $k \geq 1$; 2.2.3 The k basic generators for A_k , $k \geq 1$; 2.2.4 Productive coupling of linear subspaces in A_k , $k \geq 1$; 2.2.5 Other inductive multiplicative processes; 2.3 Properties of the multiplication; 2.3.1 The partition $A_k = R_1 \oplus \dots \oplus R_n$; A_k , $k \geq 1$; 2.3.2 The commutator for $k \geq 1$; 2.3.3 The associator for $k \geq 1$; 2.3.4 The four real division algebras; 2.3.5 The alternator for $k \geq 1$; 2.3.6 The normalisatrix function for $k \geq 1$; 2.3.7 The subalgebra x generated by x ; 2.4 Left and right multiplication maps; 2.4.1 Definition; 2.4.2 The real scalar product L_a , L_b ; 2.5 The partition $A_k = C_1 \oplus \dots \oplus C_n$; D_k , $k \geq 1$; 2.5.1 A characterization of C in A_k , $k \geq 1$; 2.5.2 Algebraic computation in D_k , $k \geq 1$; 2.5.3 The map L_a for $a \in A_k$; D_k ; 2.5.4 The complex scalar product L_a, L_b for $a, b \in A_k$; D_k ; 2.6 Alternative vectors in A_k for $k \geq 1$; 2.6.1 Definition; 2.6.2 Colinearity of X and Y in A_k , $k \geq 1$; 2.6.3 Characterization of alternativity for vectors in A_k , $k \geq 1$; 2.6.4 Alternative subspaces in A_k , $k \geq 1$; 2.9.4.3 The exponential of a product $x \otimes y$; u in A_k , $k \geq 1$; 2

Sommario/riassunto

High technology industries are in desperate need for adequate tools to assess the validity of simulations produced by ever faster computers for perennial unstable problems. In order to meet these industrial expectations, applied mathematicians are facing a formidable challenge summarized by these words - nonlinearity and coupling. This book is unique as it proposes truly original solutions: (1) Using hypercomputation in quadratic algebras, as opposed to the traditional use of linear vector spaces in the 20th century; (2) complementing the classical linear logic by the complex logic which

2.	Record Nr.	UNINA9910893605803321
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	Classificazione	9,10
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	Lingua di pubblicazione	Francese
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3.	Record Nr.	UNISALENTO991004391218707536
	Autore	Ladu, Marco
	Titolo	Rappresentanza e partecipazione politica nell'era digitale : la crisi strutturale della democrazia italiana e l'impatto delle nuove tecnologie : opportunità da cogliere e criticità da affrontare / Marco Ladu
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