



## A Taste of Jordan Algebras

By McCrimmon, Kevin

Book Condition: New. Publisher/Verlag: Springer, Berlin | This book describes the history of Jordan algebras and describes in full mathematical detail the recent structure theory for Jordan algebras of arbitrary dimension due to Efim Zelmanov. Jordan algebras crop up in many surprising settings, and find application to a variety of mathematical areas. No knowledge is required beyond standard first-year graduate algebra courses. | 0 A Colloquial Survey of Jordan Theory 0.1 Origin of the Species 0.2 The Jordan River 0.3 Links with Lie Algebras and Groups 0.4 Links with Differential Geometry 0.5 Links with the Real World 0.6 Links with the Complex World 0.7 Links with the Infinitely Complex World 0.8 Links with Projective Geometry I A Historical Survey of Jordan Structure Theory 1 Jordan Algebras in Physical Antiquity 1.1 The Matrix Interpretation of Quantum Mechanics 1.2 The Jordan Program 1.3 The Jordan Operations 1.4 Digression on Linearization 1.5 Back to the Bullet 1.6 The Jordan Axioms 1.7 The First Example: Full Algebras 1.8 The Second Example: Hermitian Algebras 1.9 The Third Example: Spin Factors 1.1 Special and Exceptional 1.11 Classification 2 Jordan Algebras in the Algebraic Renaissance 2.1 Linear Algebras over General Scalars 2.2 Categorical Nonsense 2.3 Commutators and...



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