



Discovering mathematics with Magma : reducing the abstract to the concrete /

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Monografía

With a design based on the ontology and semantics of algebra, Magma enables users to rapidly formulate and perform calculations in the more abstract parts of mathematics. This book introduces the role Magma plays in advanced mathematical research through 14 case studies which, in most cases, describe computations underpinning theoretical results

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Contenido: Cover -- Contents -- Preface -- Magma: The project -- Discovering mathematics: About this volume -- How to read the Magma code? -- Some computational experiments in number theory -- Applications of the class field theory of global fields -- Some ternary Diophantine equations of signature $(n, n, 2)$ -- Studying the Birch and Swinnerton-Dyer conjecture for modular abelian varieties using Magma -- Computing with the analytic Jacobian of a genus 2 curve -- Graded rings and special K3 surfaces -- Constructing the split octonions -- Support varieties for modules -- When is projectivity detected on subalgebras? -- Cohomology and group extensions in Magma -- Computing the primitive permutation groups of degree less than 1000 -- Computer aided discovery of a fast algorithm for testing conjugacy in braid groups -- Searching for linear codes with large minimum distance -- Colouring planar graphs -- Appendix: The Magma language -- Index -- Last Page

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