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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Analytic Solutions of Linear Difference Equations, Formal Series, and Bottom Summation -- Computations in Modules over Commutative Domains -- Advances on the Continued Fractions Method Using Better Estimations of Positive Root Bounds -- An Efficient LLL Gram Using Buffered Transformations -- On the Computation of A ???-Maps -- Algebraic Visualization of Relations Using RelView -- Comprehensive Triangular Decomposition -- Stability Investigation of a Difference Scheme for Incompressible Navier-Stokes Equations -- A Symbolic-Numerical Algorithm for Solving the Eigenvalue Problem for a Hydrogen Atom in the Magnetic Field: Cylindrical Coordinates -- An Algorithm for Construction of Normal Forms -- Computer Algebra: A 'Classical' Path to Explore Decoherence and Entanglement Phenomena in Quantum Information Theory -- Deducing the Constraints in the Light-Cone SU (3) Yang-Mills Mechanics Via Gröbner Bases -- On the Weight Spectra

of Conway Matrices Related to the Non-transitive Head-or-Tail Game -- Properties of the Liapunov Stability Zones of the Lagrange Triangle -- Studying the Stability of the Second Order Non-autonomous Hamiltonian System -- On the Peculiar Properties of Families of Invariant Manifolds of Conservative Systems -- A Unified Algorithm for Multivariate Analytic Factorization -- On the Computation of the Defining Polynomial of the Algebraic Riccati Equation -- Symmetries and Dynamics of Discrete Systems -- Exact Solutions of Completely Integrable Systems and Linear ODE's Having Elliptic Function Coefficients -- Dynamics of Nonlinear Parabolic Equations with Cosymmetry -- Weak Integer Quantifier Elimination Beyond the Linear Case -- Polynomial Division Using Dynamic Arrays, Heaps, and Packed Exponent Vectors -- Ruppert Matrix as Subresultant Mapping -- Construction of Computer System for Microobjects Recognition Based on Neural Networks -- Analytical Solution for Transient Flow of a Generalized Bingham Fluid with Memory in a Movable Tube Using Computer Algebra -- Some Elimination Problems for Matrices -- A Full System of Invariants for Third-Order Linear Partial Differential Operators in General Form -- Automatic Stability Analysis for a Diffusion Equation with Memories Using Maple -- Bounds for Real Roots and Applications to Orthogonal Polynomials -- Distance Computation from an Ellipsoid to a Linear or a Quadric Surface in  $\mathbb{R}^n$  -- Robust Stability for Parametric Linear ODEs -- Symbolic and Algebraic Methods for Linear Partial Differential Operators -- A New Scheme for Deniable/Repudiable Authentication -- An Algebraic-Numeric Algorithm for the Model Selection in Kinetic Networks -- On the Representation of the Differential Operator in Bases of Periodic Coiflets and It's Application.

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