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On 7 -- Dimensional Filiform Leibniz Algebras -- On Exponential Stability of Stochastic Control Systems -- On the Solution of Singular Ordinary Differential Equations using a Composite Chebyshev Finite Difference Method -- On 0-Controllability and Pursuit Problems for Linear Discrete Systems under Total Constraints on Controls -- Construction of Strategies of Pursuers in a Differential Game of Many Players with State and Integral Constraints -- A Triangular Stochastic Facility Layout Problem in a Cellular Manufacturing System -- Construction a Three-Stage Asymptotic Coverage Probability for the Mean using Edgeworth Second Order Approximation -- Mathematical and Numerical Modelling of the Thermoplastic Coupled Problem -- New Modification of Laplace - Adomian Decomposition Method for the Fifth - order KdV equation -- Extended Simpson Rule for Solving First-order Fuzzy Differential Equations using Generalized Differentiability -- Modified Decomposition Method for Solving Nonlinear Fredholm-Volterra Integral Equations -- Solution of Second Order Ordinary Differential Equations by Direct Diagonally Implicit Block Methods -- Group Algebra Codes Define Over Extra-Special p-Group -- New Subclasses of Meromorphic Functions related to Cho-Kwon-Srivastava Operator -- The Description of Orbits under an Action of  $GL_9$  on  $SL_9$  -- Effects of Magnetohydrodynamic on the Stagnation Point Flow past a Stretching Sheet in the Presence of Thermal Radiation with Newtonian Heating -- Description of Three Dimensional Solvable Evaluation Algebras -- On Quasi Quantum Quadratic Operators of  $M_2(C)$  -- On the Structure of the Essential Spectrum of Four-particle Schrödinger Operators on a Lattice -- Symmetrizers for Runge-Kutta Methods -- A Method of Estimating the p-adic Sizes of Common Zeros of Partial Derivative Polynomials associated with a Complete Cubic Form -- Feynman Graph Representation to Stochastic Differential Equations driven by Lévy Noise -- Some Properties of the Concurrent Grammars -- Statistical Analysis on LBlock Block Cipher -- A New Threshold Authenticated Encryption Scheme -- On Differential Invariants of some Classical Groups -- Structure of Relative Relation Modules of Finite Groups -- Block Methods with Off-steps Points for Solving First Order Ordinary Differential Equations -- Implicit Finite Difference Solutions of One-Dimensional Burgers Equation using Newton-HSSOR Method.

## Sommario/riassunto

This volume is devoted to the most recent discoveries in mathematics and statistics. It also serves as a platform for knowledge and information exchange between experts from industrial and academic sectors. The book covers a wide range of topics, including mathematical analyses, probability, statistics, algebra, geometry, mathematical physics, wave propagation, stochastic processes, ordinary and partial differential equations, boundary value problems, linear operators, cybernetics and number and functional theory. It is a valuable resource for pure and applied mathematicians, statisticians, engineers and scientists.