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Autore	Das Kedar Nath
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Equation using Jacobi Polynomials -- Analysis of (3+1)-dimensional MNWI equation via Hirota's Bilinear Method for diverse soliton waves -- Comprehensive Review of Numerical Schemes for Solving Tridiagonal Systems -- Partitioned Genetic Algorithm with Nelder-Mead for Real-Coded Problem Solving and it's Application -- On existence of Generalized Fractional Variational Inequality Problems of order .

Sommario/riassunto

This book showcases high-quality research articles presented in the International Conference on Computational Mathematics and Applications (ICCMA 2025) organized by the Department of Mathematics, National Institute of Technology Silchar, India, from 16 to 18 January 2025. It includes modern state-of-the-art research articles from a wide range of cutting-edge topics in computational sciences and its applications in industry. Each contributing article highlights the recent advances in their respective research fields and presents valuable insights and innovative methodologies for researchers and practitioners alike. The papers in this book incorporate both advanced theory and methods for computational algebra, soft computing, data science, mathematical modelling, computational fluid dynamics, numerical optimization techniques, artificial intelligence, machine learning, etc. It is a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems that cannot easily be solved using traditional methods.