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Nota di contenuto	E. V. Grigorieva and E. N. Khailov, Optimal Strategies of the Psoriasis Treatment by Suppressing the Interaction Between T-Lymphocytes and Dendritic Cells -- I. Schreiber, V. Radojkovic, F. Muzika, R. Jurašek and L. Schreiberová, The use of reaction network theory for finding network motifs in oscillatory mechanisms and kinetic parameter estimation -- G. M. N'Guerekata, An existence result for some fractional Evolution equation with nonlocal conditions and compact resolvent operator -- M. Ghosh, Impact of Tobacco Smoking on the Prevalence of Tuberculosis Infection: a Mathematical Study -- S. G. Mosher, C. Costris-Vas and R. Smith, Modelling the Effects of Stigma on Leprosy -- U. Forsy, One simple model { various complex systems -- Km. Meenakshi and S.B. Singh, Reliability Analysis of Multi-State Two-Dimensional System by Universal Generating Function -- D. Goswami, Quantum Symmetry of Classical Spaces -- P. Sankaran, Quasi-isometry and rigidity -- V. Kannan, Existence of Compositional Square-Roots of Functions -- E. Savas, On generalized statistical convergence and

strongly summable functions of weight  $g$  -- P. Das, On I- Statistically Order Pre Cauchy Sequences in Riesz Spaces -- S. Basu, On Ball dentable property in Banach Spaces -- S. Gorai, Some observations concerning polynomial convexity -- D. K. Roy and B. Datta, Solution of large-scale multi-objective optimization models for saltwater intrusion control in coastal aquifers utilizing ANFIS based linked meta-models for computational feasibility and efficiency -- M De, G Das, and K K Mandal, Cost driven optimization of microgrid under environmental uncertainties using different improved PSO models -- M. Chowdhury and P.Das, Global exponential stability of non-autonomous Cellular Neural network model with time varying delays -- S. S. Roy, Topological Configuration in the Heisenberg Spin Sequence and DNA -- S. Sinha, A. Banerjee, N. Rakshit, and S. Ray, Modelling Studies focusing on Microphytobenthos and its role in Benthic-Pelagic Coupling -- S. Das, S. Adhurya, and S. Ray, Overview of Ecological Economics and Ecosystem Services Consequences from Shrimp Culture -- N. Rakshit, A. Banerjee, S. Sinha, and S. Ray, Recent trends of Ecosystem health and biodiversity status of pelagic-benthic coupled system in Indian estuaries with special emphasis on Hooghly estuary, India -- S. Adhurya, S. Das, and S. Ray, Guanotrophication by Waterbirds in Freshwater Lakes: A Review on Ecosystem Perspective -- Z. Yuxuan, Z. Yanhui, Lu Xiaohua, On the Volatility of High Frequency Stock Index Based on SV Model of MCMC -- L. N. Guin, The effects of unequal diffusion coefficients on spatiotemporal pattern formation in prey harvested reaction-diffusion systems -- B.C. Giri, R. Bhattacharjee and T. Maiti, Optimal pricing strategy in a two-echelon supply chain with admissible advanced and delayed payment -- D. Mukherjee, L. N. Guina, S. Chakravarty, Studies on Atherosclerotic Plaque Formation: A Mathematical Approach -- Y. Zhou, Threshold of a stochastic delayed SIR epidemic model with saturation incidence -- P. Mondal and S. Sinha, Semi-stationary Equilibrium Strategies in Non-cooperative N-person Semi-Markov Games -- D. Dubey, S. K. Neogy and S. Sinha, Max Plus Algebra, Optimization and Game Theory -- F. Al Basir, Dynamics of infectious diseases with periodic awareness campaigns -- B. Samanta, B.C. Giri and K.S. Chaudhuri, A vendor-buyer supply chain model for deteriorating item with quadratic time-varying demand and pro-rata warranty policy -- A. Sengupta, J. Chowdhury, Xue-Zhi Li and P. K. Roy, Pest Control of *Jatropha curcas* Plant for Different Response Functions -- Y.X. Dangy, Global dynamics of a TB model with classes age structure and environmental transmission -- S. Chakraborty -- Gravitational waves : The Mathematical Background -- J. D. Ferreira, V. S. Hari Rao, Current trends in the bifurcation methods of solutions of real world dynamical systems -- S. K. Chakraborty and G. Panda, A modified coordinate search method based on axes rotation.

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### Sommario/riassunto

This book collects select papers presented at the “International Conference on Mathematical Analysis and Application in Modeling,” held at Jadavpur University, Kolkata, India, on 9–12 January 2018. It discusses new results in cutting-edge areas of several branches of mathematics and applications, including analysis, topology, dynamical systems (nonlinear, topological), mathematical modeling, optimization and mathematical biology. The conference has emerged as a powerful forum, bringing together leading academics, industry experts and researchers, and offering them a venue to discuss, interact and collaborate in order to stimulate the advancement of mathematics and its industrial applications. .

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