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Wetlands: A Computational Investigation For The Optimal Adsorption Model -- Some Results Involving Euler-Type Integrals And Dilogarithm Values -- Nonlinear Evolution Equation For Propagation Of Waves In An Artery With An Aneurysm: An Exact Solution Obtained By The Modified Method Of Simplest Equation -- Modelling Of Light Mg And Al Based Alloys As "In Situ" Composites -- Asymptotic Study Of The Nonlinear Velocity Problem For The Oscillatory Non-Newtonian Flow In A Straight Channel -- Competition For Resources And Space Contributes To The Emergence Of Drug Resistance In Cancer -- Efficient Error Based Metrics For Fuzzy-Neural Network Performance Evaluation -- Box Model Of Migration In Channels Of Migration Networks -- Modified Coordinates In Dynamics Simulation Of Multibody Systems With Elastic Bodies.

| Sommario/riassunto | This book presents recent research on Advanced Computing in Industrial Mathematics, which is one of the most prominent interdisciplinary areas, bringing together mathematics, computer science, scientific computations, engineering, physics, chemistry, medicine, etc. Further, the book presents the major tools used in Industrial Mathematics, which are based on mathematical models, and the corresponding computer codes, which are used to perform virtual experiments to obtain new data or to better understand previous experimental findings. The book gathers the peer-reviewed papers presented at the 11th Annual Meeting of the Bulgarian Section of SIAM (BGSIAM), from December 20 to 22, 2016 in Sofia, Bulgaria. |