

Contents

| | |
|---|-----|
| Preface | V |
| 1. Web Technologies for Modelling and Visualization in Mechanical Engineering Mihai Dupac and Claudiu-Ionuț Popîrlan | 001 |
| 2. Golden Ratio in the Point Sink Induced Consolidation Settlement of a Poroelastic Half Space Feng-Tsai Lin and John C.-C. Lu | 025 |
| 3. Voronoi diagram: An adaptive spatial tessellation for processes simulation Leila Hashemi Beni, Mir Abolfazl Mostafavi, Jacynthe Pouliot | 041 |
| 4. FUZZY MODEL BASED FAULT DETECTION IN WASTE-WATER TREATMENT PLANT Skrjanc I. | 053 |
| 5. An experimental parameter estimation approach for an on-line fault diagnosis system C. Angeli | 063 |
| 6. Simulated Day and Night Effects on Perceived Motion in an Aircraft Taxiing Simulator Daniel C. Zikovitz, Keith K. Niall, Laurence R. Harris and Michael Jenkin | 077 |
| 7. A New Trend in Designing Plant Layouts for the Process Industry Richart Vazquez-Roman and M. Sam Mannan | 095 |
| 8. The Elliptic Solvers in the Canadian Limited Area Forecasting Model GEM-LAM Abdessamad Qaddouri and Vivian Lee | 109 |
| 9. A Collaborative Search Strategy to Solve Combinatorial Optimization and Scheduling Problems Nader Azizi, Saeed Zolfaghari and Ming Liang | 125 |
| 10. Identification and Generation of Realistic Input Sequences for Stochastic Simulation with Markov Processes Carl Sandrock | 137 |