Contents

Hadi Roohani Ghehsareh, Seyed Kamal Etesami and Maryam Hajisadeghi Esfahani
Numerical Investigation of Electromagnetic Scattering Problems Based on the Compactly Supported Radial Basis Functions —— 677

R. Sakthivel, B. Kaviarasan, O.M. Kwon and M. Rathika
Reliable Sampled-Data Control of Fuzzy Markovian Systems with Partly Known Transition Probabilities —— 691

Burcu Ayhan, M. Naci Özer and Ahmet Bekir
Method of Multiple Scales and Travelling Wave Solutions for (2+1)-Dimensional KdV Type Nonlinear Evolution Equations —— 703

Zhaoqi Yin, Yunfeng Han, Yingyu Ren, Qiuyi Yang and Ningde Jin
Nonlinear Dynamic Characteristics of Oil-in-Water Emulsions —— 715

Elena V. Nikolaeva, Irina D. Zakiryanova, Andrey L. Bovet and Iraida V. Korzun
On Barium Oxide Solubility in Barium-Containing Chloride Melts —— 731

Zheng-Yi Ma and Jin-Xi Fei
Nonlocal Symmetries, Explicit Solutions, and Wave Structures for the Korteweg–de Vries Equation —— 735

Zhonglong Zhao and Bo Han
On Symmetry Analysis and Conservation Laws of the AKNS System —— 741

M.S. Mani Rajan
Unexpected Behavior on Nonlinear Tunneling of Chirped Ultrashort Soliton Pulse in Non-Kerr Media with Raman Effect —— 751

Huai-Yong Zhang, Zhao-Yi Zeng, Ying-Qin Zhao, Qing Lu and Yan Cheng
First-Principles Study of Lattice Dynamics, Structural Phase Transition, and Thermodynamic Properties of Barium Titanate —— 759

Bo-Kun Wang, Shao-Yi Wu, Zi-Yi Yuan, Zi-Xuan Liu, Shi-Xin Jiang, Zheng Liu, Zi-Jian Yao, Bao-Hua Teng and Ming-He Wu
Theoretical Studies of the Spin Hamiltonian Parameters and Local Distortions for Cu$^{2+}$ in Alkaline Earth Lead Zinc Phosphate Glasses —— 769