

Contents

Special issue on complexity of nonlinear waves

Foreword	
<i>Andrus Salupere and Gérard A. Maugin</i>	323
Wave propagation in pantographic 2D lattices with internal discontinuities	
<i>Angela Madeo, Alessandro Della Corte, Leopoldo Greco, and Patrizio Neff</i>	325
On mechanical aspects of nerve pulse propagation and the Boussinesq paradigm	
<i>Tanel Peets and Kert Tamm</i>	331
Contribution of wave set-up into the total water level in the Tallinn area	
<i>Katri Pindsoo and Tarmo Soomere</i>	338
Transverse instability of nonlinear longitudinal waves in hexagonal lattices	
<i>Alexey Porubov, Igor Andrianov, and Brendt Markert</i>	349
Advantages and limitations of the nonlinear Schrödinger equation in describing the evolution of nonlinear water-wave groups	
<i>Lev Shemer</i>	356
Shock wave propagation in nonlinear microstructured wool felt	
<i>Anatoli Stulov and Vladimir Erofeev</i>	361
Multisoliton interactions for the Manakov system under composite external potentials	
<i>Michail D. Todorov, Vladimir S. Gerdjikov, and Assen V. Kyuldjiev</i>	368
Analysis of ship wake transformation in the coastal zone using time–frequency methods	
<i>Tomas Torsvik, Heiko Herrmann, Ira Didenkulova, and Artem Rodin</i>	379
Thermodynamic hierarchies of evolution equations	
<i>Peter Ván, Robert Kovács, and Tamás Fülöp</i>	389
Wave motions along lattices with nonlinear on-site and inter-site potentials. Cooperation and/or competition leading to lattice solitons and/or discrete breathers	
<i>Manuel G. Velarde, Alexander P. Chetverikov, Werner Ebeling, Sergey V. Dmitriev, and Victor D. Lakhno</i>	396
Verification of modelled locations of coastal areas exposed to current-driven pollution in the Gulf of Finland by using surface drifters	
<i>Bert Viikmäe, Tomas Torsvik, and Tarmo Soomere</i>	405
Excitation of intrinsic localized modes in finite mass-spring chains driven sinusoidally at end	
<i>Yosuke Watanabe, Takunobu Nishida, and Nobumasa Sugimoto</i>	417
A fresh look on old analytical solutions for water waves on a constant slope	
<i>Shanshan Xu and Frédéric Dias</i>	422
Nonlinear energy in a wave turbulence system	
<i>Naoto Yokoyama and Masanori Takaoka</i>	430
Wave nature in deformation of solids and comprehensive description of deformation dynamics	
<i>Sanichiro Yoshida</i>	438
Transition of breakup modes for a liquid jet in a static electric field	
<i>Takao Yoshinaga and Takasumi Iwai</i>	449