

List of publications - Delia Ionescu-Kruse

Book chapters

1. Ionescu D., *Gravitational Fields in the Relativistic Theory of Gravitation*. Current Topics in Continuum Mechanics, Vol. III, Editor Lazar Dragos, Editura Academiei Române, București 2006, 115–150, ISBN: 973-27-1348-8.

Journal articles

1. Ionescu-Kruse D., *Peakons arising as particle paths beneath small-amplitude water waves in constant vorticity flows*, Journal of Nonlinear Mathematical Physics, in press.
2. Ionescu-Kruse D., *Small-amplitude capillary-gravity water waves: Exact solutions and particle motion beneath such waves*, Nonlinear Analysis: Real World Applications **11** (2010), 2989–3000.
3. Ionescu-Kruse D., *Exact solutions for small-amplitude capillary-gravity water waves*, Wave Motion **46** (2009), 379–388.
4. Ionescu-Kruse D., *Particle trajectories beneath small amplitude shallow water waves in constant vorticity flows*, Nonlinear Analysis: Theory, Methods & Applications **71** (2009), 3779–3793.
5. Ionescu-Kruse D., *Particle trajectories in linearized irrotational shallow water flows*, Journal of Nonlinear Mathematical Physics **15** (2008), 13–27.
6. Ionescu-Kruse D., *Liapunov's direct method for Birkhoffian systems: Applications to electrical networks*, Journal of Geometry and Physics **57** (2007), 2213–2228.
7. Ionescu-Kruse D., *Variational derivation of the Camassa-Holm shallow water equation with non-zero vorticity*, Discrete and Continuous Dynamical Systems - Series A **19** (2007), 531–543.
8. Ionescu-Kruse D., *Variational derivation of the Camassa-Holm shallow water equation*, Journal of Nonlinear Mathematical Physics **14** (2007), 303–312.
9. Ionescu D., Scheurle J., *Birkhoffian formulation of the dynamics of LC circuits*, Zeitschrift für angewandte Mathematik und Physik **58** (2007), 175–208.
10. Ionescu D., *A geometric Birkhoffian formalism for nonlinear RLC networks*, Journal of Geometry and Physics **56** (2006), 2545–2572.
11. Ionescu D., *The Gravitational Field of an Electrically Charged Mass Point and the Causality Principle in RTG*, Theoretical and Mathematical Physics **136** (2003), 1177–1187.

12. Ionescu D., *Comparative Analysis of the Electrogravitational Kepler Problem in GRT and RTG*, International Journal of Non-Linear Mechanics **38** (2003), 1251–1268.
13. Ionescu D., *Can the Notion of a Homogeneous Gravitational Field be Transferred from Classical Mechanics to the Relativistic Theory of Gravity?*, Theoretical and Mathematical Physics **130** (2002), 287–297.
14. Ionescu D., Soós E., *Simultaneity and non-holonomy*, Annals of the University of Timișoara, Mathematics and Computer Science series **39** (2001), 277–282.
15. Ionescu D., Soós E., *Electrogravitational Field Produced by a Charged Mass Point in RTG*, Revue Romaine de Mathématiques Pures et Appliqués **45** (2000), 251–260.

Conference proceedings

1. Ionescu-Kruse D., *The Camassa-Holm equation modelling shallow water waves over a constant vorticity flow*, Proceedings of the 6-th Congress of Romanian Mathematicians, Publishing House of the Romanian Academy (2007), vol. 1, 511–519, ISBN: 978-973-27-1781-3/v.1.
2. Ionescu D., *A geometric modelling of nonlinear RLC networks*, Proceedings in Applied Mathematics and Mechanics (PAMM) **6** (2006), 813–814, WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim, ISSN: 1617-7061.
3. Ionescu D., *Geometric modelling of the dynamics of electrical circuits*, Modern Trends in Geometry and Topology, Deva 5–11 September 2005, Editors: Dorin Andrica, Paul A. Blaga, Sergiu Moroianu, Cluj University Press (2006), 215–229, ISBN: 973-610-429-X; 978-973-610-429-9.
4. Ionescu D., Soós E., *Consequences of the Causality Principle in the Relativistic Theory of Gravitation*, Proceedings of the XXIII International Workshop on High Energy Physics and Field Theory, Protvino (Russia), June 21–23 (2000), 180–190, ISBN: 5-88738-038-1.