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Titolo	Symmetry and Perturbation Theory [[electronic resource]] : proceedings of the international conference SPT 2001, Cala Gonone, Sardinia, Italy, 6-13 May 2001 / / edited by Dario Bambusi, Giuseppe Gaeta, Mariano Cadoni
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Altri autori (Persone)	BambusiDario GaetaGiuseppe <1959-> CadoniMariano
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Nota di contenuto	CONTENTS ; Preface ; Acknowledgements ; Geometry and Dynamics of Hyperelliptically Separable Systems ; References ; Multiple Hopf Bifurcation in Problems with O(2) Symmetry: Kuramoto-Sivashinky Equation; Abstract ; 1 Introduction ; 2 Analysis of the Problem ; 3 Application of the Method to the Kuramoto Sivashinsky Equation References Sternberg-Chen Theorem for Equivariant Hamiltonian Vector Fields ; Introduction ; 1 Definitions ; 2 Main result ; 3 Deformation method ; 4 B-equivariant conjugacy; References ; A Functional Analysis Approach to Arnold Diffusion ; References The Symplectic Evans Matrix and Solitary Wave Instability References ; Classical Symmetries for a Boussinesq Equation

with Nonlinear Dispersion
; 1 Introduction ; 2 Lie Symmetries ; 3
Optimal system and symmetry reductions
; 4 Travelling wave solutions ; 5 Conclusions
; References
Pseudo-Normal Forms and their Applications
Introduction and Main Results ; References
; Periodic Orbits of Langmuir's Atom ;
Heteroclinic Cycles and Wreath Product Symmetries
; References ; Linearizing Resonant Normal Forms
; Introduction ; 1 Normal forms
2 Map to a linear system 3 Integration of normal
forms ; References ; Symmetry
Analysis and Reductions of the Schwarz-Korteweg-De Vries Equation in
(2 + 1) Dimensions; 1 Introduction ; 2 Lie symmetries
; 3 Optimal systems and reductions ; 4
Invariance analysis of the (1 + 1)-dimensional systems; 5 Some explicit
solutions ; 6 Conclusions ; References
Tori Breakdown in Coupled Map Lattices

Sommario/riassunto

The third conference on "Symmetry and Perturbation Theory" (SPT2001) was attended by over 50 mathematicians, physicists and chemists. The proceedings present the advancement of research in this field - more precisely, in the different fields at whose crossroads symmetry and perturbation theory sit.
<i>Contents:</i>Geometry and Dynamics of Hyperelliptically Separable Systems <i>(S Abenda)</i>A Functional Analysis Approach to Arnold Diffusion <i>(M Berti)</i>Linearizing Resonant Normal Forms <i>(G Gaeta)</i>Tori Breakdown in Coupled Map Lattices <i>(C Gibe

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