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Autore	Hill, Dennis S.
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Altri autori (Persone)	MiaraBernadette StavroulakisG. E (Georgios E.) ValenteVanda
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Nota di contenuto	Preface; CONTENTS; Topics on Mathematics for Smart Systems; A Phenomenological 3D Model Describing Stress-Induced Solid Phase Transformations with Permanent Inelasticity F. Auricchio, A. Reali and U. Stefanelli; Numerical Analysis of a Frictionless Piezoelectric Contact Problem Arising in Viscoelasticity M. Barboteu, J. R. Ferncindez and Y. Ouafik; A Stabilized MITC6 Triangular Shell Element L. Beirio da Vezga, D. Chapelle and I. Paris; A New Family of C0 Finite Elements for the Kirchhoff Plate Model L. Beirio da Veiga, J. Niiranen and R. Stenberg Modeling and Simulation of Piezoelectric-Active Control of Wind-Induced Vibrations on Beams M. Betti, C. C. Baniotopoulos and G. E. Stavroulakis A Numerical Library for Shells Described by the Intrinsic Geometric Modeling via the Oriented Distance Function J. Cagnol and V. Sansalone; A Contact Problem for Viscoelastic Materials with Long Memory Involving Damage M. Carnpo, J. R. Ferncindez and A.

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Mathematical Results on the Stability of Quasi-Static Paths of Smooth Systems N. V. Rebrova, J. A. C. Martins and V. A. Sobolev Sensitivity Analysis of Acoustic Wave Propagation in Strongly Heterogeneous Piezoelectric Composite E. Rohan and B. Miara; New Results on the Stability of Quasi-Static Paths of a Single Particle System with Coulomb Friction and Persistent Contact F. Schmid, J. A. C. Martins and N. Rebrova; Numerical Experiments on Smart Beams and Plates G. E. Stavroulakis, D. G. Marinova, G. A. Foutsitzi, E. P. Hadjigeorgiou, E. C. Zacharenakis and C. C. Baniotopoulos  
On Modeling, Analytical Study and Homogenization for Smart Materials A. Timofte The Cardiovascular System as a Smart System M. Tringelova, P. Nardinocchi, L. Teresi and A. Di Carlo; Author Index

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### Sommario/riassunto

This volume gathers articles presented at a prominent European conference on smart systems and summarizes the activities carried out by a research and training network supported by the European community. The contributions aim to exhibit new research topics in the areas of materials science, advanced mathematical tools, and elements of control and numerical algorithms relevant to the design and optimization of smart systems.

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