## **Nonlinear Conservation Laws And Applications**

## DOWNLOAD HERE

Foreword.- Preface.- Open questions in the theory of one dimensional- hyperbolic conservation laws.-Multidimensional conservation laws: Overview, - problems, and perspective. - Mathematical analysis of fluids in motion.- Selected topics in approximate solutions of nonlinear conservation laws.- High-resolution central schemes.- Stability and dynamics of viscous shock waves.- Mathematical aspects of a model for granular flow.- The flow associated to weakly differentiable vector fields: recent results and open problems.- Existence and uniqueness results for the continuity equation and applications to the chromatography system.- Finite energy weak solutions to the quantum hydrodynamics system.- The Monge problem in geodesic spaces.- Existence of a unique solution to a nonlinear moving-boundary problem of mixed type arising in modeling blood flow.- Transonic flows and isometric embeddings.- Well posedness and control in models based on conservation laws.-Homogenization of nonlinear partial differential equations in the context of ergodic algebras: Recent results and open problems.-Conservation laws at a node.- Nonlinear hyperbolic surface waves.- Vacuum in gas and fluid dynamics.-On radially symmetric solutions to conservation laws.- Charge transport in an incompressible fluid: New devices in computational electronics.- Localization and shear bands in high strain-rate plasticity.-Hyperbolic conservation laws on spacetimes.- Reduced theories in nonlinear elasticity.- Mathematical, physical and numerical principles essential for models of turbulent mixing.- On the Euler-Poisson equations of self-gravitating compressible fluids.- Viscous system of conservation laws: Singular limits.- A two-dimensional Riemann problem for scalar conservation laws.- Semi-hyperbolic waves in two-dimensional compressible Euler systems.- List of summer program participants. EAN/ISBN : 9781441995544 Publisher(s): Springer, Berlin, Springer Science & Business Media Format: ePub/PDF Author(s): Bressan, Alberto - Chen, Gui-Quiang G. - Lewicka, Marta - Wang, Dehua

## DOWNLOAD HERE

## Similar manuals: