1.	Record Nr.	UNINA9910818826603321
	Titolo	Current progress in hyperbolic systems : Riemann problems and computations : proceedings of the AMS-IMS-SIAM Joint Summer Research Conference held July 16-22, 1988 with support from the National Science Foundation and the Office of Naval Research / / W. Brent Lindquist, editor
	Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [1989] ©1989
	ISBN	0-8218-7688-0 0-8218-5106-3
	Descrizione fisica	1 online resource (382 p.)
	Collana	Contemporary mathematics, , 0271-4132 ; ; 100
	Disciplina	515/.353
	Soggetti	Riemann-Hilbert problems Differential equations, Hyperbolic Fluid mechanics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	"The AMS-IMS-SIAM Joint Summer Research Conference in the Mathematical Sciences on Current Progress in Hyperbolic Systems: Riemann Problems and Computations was held at Bowdoin College, Brunswick, Maine, on July 16-22, 1988"--T.p. verso.
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	""Contents""; ""Preface""; ""Shock wave solutions of the 1d Navier-Stokes equations for compressible, isentropic flow""; ""Embedded hyperbolic regions in a nonlinear model for viscoelastic flow""; ""Capillary energy and the entropy condition for the Buckley-Leverett equation""; ""Nonlinear elastoplastic waves""; ""An example of a Riemann problem of second kind""; ""Density profiles for diverging detonations""; ""Anomalous waves in shock wave - fluid interface collisions""; ""Time-dependent shear flow of a non-Newtonian fluid""; ""The Riemann problem for combustion"" ""Transitional shock waves""""Three-phase flow with gravity""; ""A system of conservation laws with a parabolic degeneracy""; ""Nonlinear surface waves""; ""A criterion for certain wave structures in systems that change type""; ""A note on the stability of eigenvalue degeneracy in nonlinear conservation laws of multiphase flow""; ""Analogies between

Riemann problem for 1-D fluid dynamics and 2-D steady supersonic flow""; ""Instability and ill-posedness in granular flow""; ""Well-posedness of the Riemann problem; consistency of the Godunov's scheme""

""The Riemann problem for a system of conservation laws modeling phase transitions""""Detonation waves and deflagration waves in the one dimensional ZND model for high Mach number combustion""; ""The Riemann solution to a system of conservation laws, with application to a non-zero sum game""; ""Asymptotic stability of planar rarefaction waves for scalar viscous conservation laws in several dimensions"";

""Riemann problem for a combustion model system: the existence and basic structure of the self-similar solutions""; ""Dynamic instability of the liquid crystal director""

""On the Riemann problem for a prototype of a mixed type conservation law. II""