

1. Record Nr.	UNINA9910788736703321
Autore	Sheng Wancheng <1963->
Titolo	The Riemann problem for the transportation equations in gas dynamics // Wancheng Sheng, Tong Zhang
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 1999
ISBN	1-4704-0243-2
Descrizione fisica	1 online resource (93 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; number 654
Disciplina	510 s 515/.353
Soggetti	Gas dynamics Conservation laws (Mathematics) Riemann-Hilbert problems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"January 1999, volume 137, number 654 (third of 6 numbers)."
Nota di bibliografia	Includes bibliographical references (pages 76-77).
Nota di contenuto	""Contents""; ""Chapter I. Introduction""; ""Chapter II. 1-D Riemann Problem for Transportation Equations in Gas Dynamics""; ""A2.1 Preliminaries and Solutions Obtained with Characteristic Method""; ""A2.2 The Existence of Solutions of Viscous System (2.2.1-3)""; ""A2.3 The Limit of Solutions of System (2.21-3) as Viscosity Vanishes""; ""2.3.1 The Case $u_{\text{sub}(-)} > u_{\text{sub}(+)}\text{""; ""2.3.2 The Case } u_{\text{sub}(-)} < u_{\text{sub}(+)}\text{""; ""Chapter III. 2-D Riemann Problem for Transportation Equations in Gas Dynamics""; ""A3.1 Preliminaries""; ""A3.2 2-D Pseudo-steady Riemann Problem""$ ""3.2.1 Preliminaries and Solutions Obtained with Characteristic Method""""3.2.2 The Existence of Solutions of Viscous System (3.2.16)""; ""3.2.3 The Limit of Solutions of Viscous System (3.2.16) as Viscosity Vanishes""; ""I. The Case $U_{\text{sub}(-)}/V_{\text{sub}(-)} > U_{\text{sub}(+)}/V_{\text{sub}(+)}\text{""; ""II. The Case } U_{\text{sub}(-)}/V_{\text{sub}(-)} < U_{\text{sub}(+)}/V_{\text{sub}(+)}\text{""; ""A3.3 The Case } 2J_{\text{sup}(-)} + 2J_{\text{sup}(+)}\text{""; ""A3.4 The Case } 4J_{\text{sup}(-)}\text{""; ""References""$