

MEMOIRS

of the
American Mathematical Society

Number 599

Large Time Behavior
of Solutions for General
Quasilinear Hyperbolic-Parabolic
Systems of Conservation Laws

Tai-Ping Liu
Yanni Zeng



January 1997 • Volume 125 • Number 599 (end of volume) • ISSN 0065-9266

American Mathematical Society
Providence, Rhode Island

CONTENTS

Abstract	viii
1. Introduction	1
2. Viscous Conservation Laws	7
3. Diffusion Waves	16
4. Systems with Diagonalizable Linearizations	35
5. Green's Function for a 2×2 Linear System	44
6. Green's Functions for $n \times n$ Systems with Applications	59
6.1. Green's Functions	59
6.2. Applications	76
7. Energy Estimate	87
8. Systems with Non-Diagonalizable Linearizations	93
9. Applications to Continuum Mechanics	111
References	119