

论文

Lax-Friedrichs Difference Approximations to Isentropic Equations of Gas Dynamics

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摘要 We are concerned with I.V.P for the isentropic equations of gas dynamics

$$(1) \rho_t + (\rho u)_x = 0,$$

$$(\rho u)_t + (\rho u^2 + p)_x = 0,$$

$$(2) (\rho, u)|_{t=0} = (\rho_0(x), u_0(x)),$$

where $p = (\rho - r)/r, 2$

关键词

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Abstract We are concerned with I.V.P for the isentropic equations of gas dynamics (1) $\rho_t + (\rho u)_x = 0, (\rho u)_t + (\rho u^2 + p)_x = 0, (2) (\rho, u)|_{t=0} = (\rho_0(x), u_0(x)),$ where $p = (\rho - r)/r, 2$

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