

An Introduction To Astrophysical Hydrodynamics

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[arXiv:2208.10528v1 \[astro-ph.GA\] 22 Aug 2022](#)

Aug 24, 2022 · Department of Astrophysical Sciences, Princeton University, Princeton, ... INTRODUCTION Tremendous progress has been made in hydrodynamics (Guillet & Teyssier2011). Hydrodynamics is solved using the MUSCL scheme, a second order - nite volume Godunov method, and the HLLC Riemann

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Sep 15, 2022 · Keywords: Computational methods (1965); Astrophysical uid dynamics(101); Radiative transfer (1335); Radiative transfer simulations(1967) 1. INTRODUCTION Radiation magneto-hydrodynamic (MHD) simula-tions play an important role for theoretical studies of many astrophysical problems. They can be used to de-