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'Riemann solver WikiMili The Free Encyclopedia

February 25th, 2020 - A Riemann solver is a numerical method used to solve a Riemann problem They are heavily used in putational fluid dynamics and putational magnetohydrodynamics Exact solvers Sergei K Godunov is credited with introducing the first exact Riemann solver for the Euler equations 1 by extending the previous CIR Courant Isaacson Rees method to non linear systems of hyperbolic'

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'On the role of Riemann solvers in ScienceDirect

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April 26th, 2020 - The Riemann solver is the method by which time averaged fluxes of all conserved quantities are calculated



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at cell interfaces see section 4.3 in the ApJS Method Paper There are entire monographs written on exact and approximate Riemann solvers for hydrodynamics and MHD e.g. E. F. Toro Riemann Solvers and Numerical Methods for Fluid Dynamics 1999' '***Riemann solvers and numerical methods for fluid dynamics***

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