

Chapter 17

Numerical Methods for Astrophysics

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ABSTRACT

The physical laws astrophysicists use to describe their phenomena are believed to have been understood in many cases. Thus modelling astrophysical phenomena is focussed on the numerical implementation of these models. The main issue astrophysicists have to overcome is the large range of spatial, temporal and density scales.

The models typically are the compressible inviscid Euler equations or magnetohydrodynamic equations in three space dimensions coupled with many source terms. The numerical methods used often are finite volume methods or particle methods. Numerical methods that deal with the large range of scales need to be addressed individually for each problem at hand. Examples of these methods are the introduction of subgrid scale models, using time implicit methods or moving mesh methods.

These notes are strongly indebted to discussions with Fritz Röpke from Heidelberg University and the Heidelberg Institute of Technological Science, <http://www.h-its.org/en/research/pso/people/>.

Numerical Astrophysics

Remi Abgrall, Chi-Wang Shu



Numerical Astrophysics:

Numerical Methods in Astrophysics Peter Bodenheimer, Gregory P. Laughlin, Michal Rozyczka, Tomasz Plewa, Harold. W. Yorke, 2006-12-13 *Numerical Methods in Astrophysics* An Introduction outlines various fundamental numerical methods that can solve gravitational dynamics hydrodynamics and radiation transport equations This resource indicates which methods are most suitable for particular problems demonstrates what the accuracy requirements are in numerical simulations a

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