

Construction of high order Residual Schemes

Rémi Abgrall, Institut de Mathématiques de Bordeaux et INRIA

We describe the state-of-the art on high order Residual distribution schemes. We first describe what is a residual distribution scheme, give examples for first order and second order. Then a systematic construction is presented. The illustrations are given with 2D examples, but the extension to 3D is straightforward. Extensions for unsteady problems and various physics will also be reported.