

Introduction to Multigrid Methods III

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Abstract

In this installment of the Introduction to Multigrid Methods series, we will discuss the main ingredients for multigrid methods, namely intergrid transfer operators (to move between the coarse and fine grids) and the coarse grid operator (representing the underlying differential equation on coarser grids). We will then put these ingredients together and make some standard multigrid methods. If time allows, a numerical example will be demonstrated.