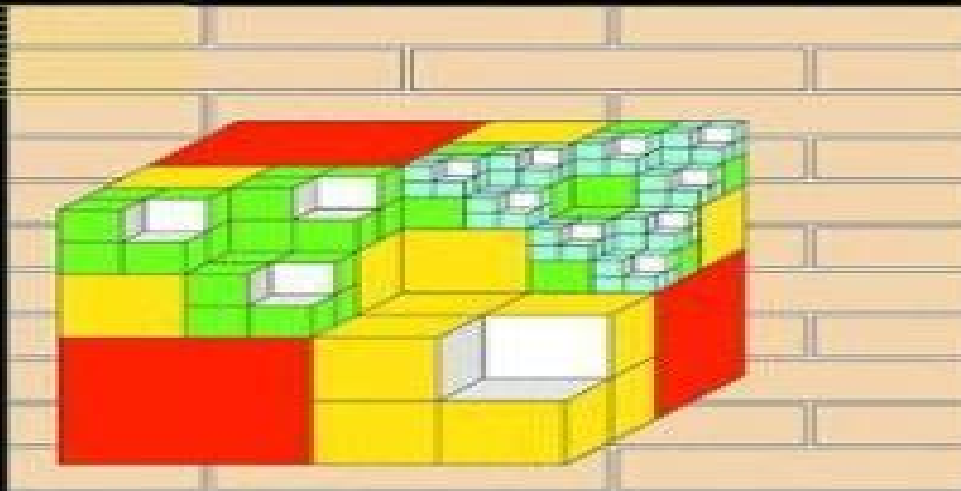




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The volume is intended to foster this new and exciting area of interdisciplinary research and to present recent advances and results in this field *Multiscale Modeling and Simulation in Science* Björn Engquist, Per Lötstedt, Olof Runborg, 2009-02-11

Most problems in science involve many scales in time and space An example is turbulent flow where the important large scale quantities of lift and drag of a wing depend on the behavior of the small vortices in the boundary layer Another example is chemical reactions with concentrations of the species varying over seconds and hours while the time scale of the oscillations of the chemical bonds is of the order of femtoseconds A third example from structural mechanics is the stress and strain in a solid beam which is well described by macroscopic equations but at the tip of a crack modeling details on a microscale are needed A common difficulty with the simulation of these problems and many others in physics chemistry and biology is that an attempt to represent all scales will lead to an enormous computational problem with unacceptably long computation times and large memory requirements On the other hand if the discretization at a coarse level ignores the mesoscale information then the solution will not be physically meaningful The influence of the fine scales must be incorporated into the model This volume is the result of a Summer School on Multiscale Modeling and Simulation in Science held at Bosön Lidingö outside Stockholm Sweden in June 2007 Sixty PhD students from applied mathematics the sciences and engineering participated in the summer school

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