



Staibilization parameters in SUPG and PSPG formulations

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We describe how we determine the stabilization parameters and element length scales used in the finite element formulations in fluid m echanics. These formulations include the interface-tracking and interface-capturing techniques we developed for computation of flow proble ms with moving boundaries and interfaces. The stabilized formulations we focus on are the streamline-upwind/Petrov-Galerkin (SUPG) and pressurestabilizing/Petrov-Galerkin (PSPG) methods. The stabilization parameters described here are designed for the semi-discrete and space-time formulations of the advection-di@usion equation and the Navier-Stokes equations of incompressible flows.

<u>存档文本</u>

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