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“Strategies in Modeling Fluid-Solid Interaction Systems”

Abstract:
In this talk, an overview of different strategies in modeling fluid-solid interaction systems is presented. Regular mesh is recommended for handling different fluid models. In addition, finite element methods will be adopted for immersed structures/solids. Implicit iterative solution method, namely, Newton-Krylov method will be introduced along with V-cycle multigrid method. Various numerical results will also be employed to illustrate the key points.

Friday, September 14, 2012
3:00 PM in 372 Jabara Hall

Please come join us for refreshments before the lecture at 2:30 p.m. in room 353 Jabara Hall.