

Fluid Structure Interaction II

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Fluid-structure interactions (FSI), i.e., the interplay of some moveable or deformable structure with an internal or surrounding fluid, are among the most widespread and most challenging coupled or multi-physics problems. Although much has been accomplished in developing good computational FSI methods and despite convincing solutions to a number of classes of problems including those presented in this book, there is a need for more comprehensive studies showing that the computational methods proposed are reliable, robust, and efficient beyond the classes of problems they have successfully been applied to. This volume of LNCSE, a sequel to vol. 53, which contained, among others, the first numerical benchmark for FSI problems and has received considerable attention since then, presents a collection of papers from the "First International Workshop on Computational Engineering - special focus FSI," held in Herrsching in October 2009 and organized by three DFG-funded consortia. The papers address all relevant aspects of FSI simulation and discuss FSI from the mathematical, informatical, and engineering perspective. EAN/ISBN : 9783642142062 Publisher(s): Springer, Berlin Format: ePub/PDF Author(s): Bungartz, Hans-Joachim - Mehl, Miriam - Schfer, Michael

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