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emphasis on conservative unstructured-grid FVM. The first part of the book presents the nascent numerical methods, algorithms and solvers for both compressible and incompressible flows, computational structural dynamics (CSD), parallel multigrid, IOM, IMM and ALE methods.

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**Interaction - 1st Edition**

We focus on a patient-specific Fontan configuration, and perform a fully coupled fluid-structure interaction (FSI) analysis of hemodynamics and vessel wall motion. To enable physiologically realistic simulations, a simple approach to constructing a variable-thickness blood vessel wall description is

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### **Fluid-structure interaction**

Computational free-surface  
fluid-structure interaction with  
application to floating offshore wind  
turbines J. Yan, A. Korobenko, X. Deng

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and Y. Bazilevs 1 Dec 2016 | Computers  
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## **SPACE-TIME FLUID-STRUCTURE INTERACTION METHODS ...**

The lectures in the second week will focus on the fundamental concepts and advanced topics in computational fluid-structure interaction (FSI). The

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fundamental concepts will include the stabilized formulations, ALE method and ALE-VMS technique, space-time method and space-time-VMS technique, mesh update methods for flows with moving boundaries and interfaces, introductory computational structural mechanics, FSI coupling techniques and iterative methods, isogeometric analysis, and ...

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### **Computational Fluid Mechanics and Fluid-Structure Interaction**

This contributed volume celebrates the work of Tayfun E. Tezduyar on the occasion of his 60th birthday. The articles it contains were born out of the Advances in Computational Fluid-Structure Interaction and Flow

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Simulation (AFSI 2014) conference, also dedicated to Prof. Tezduyar and held at Waseda University in Tokyo, Japan on March 19-21, 2014.

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