



# Fluid-Structure Interaction: An Introduction to Finite Element Coupling

*Jean-François Sigrist*

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*Fluid-Structure Interaction: An Introduction to Finite Element Coupling* fulfils the need for an introductory approach to the general concepts of Finite and Boundary Element Methods for FSI, from the mathematical formulation to the physical interpretation of numerical simulations. Based on the author's experience in developing numerical codes for industrial applications in shipbuilding and in teaching FSI to both practicing engineers and within academia, it provides a comprehensive and self-contained guide that is geared toward both students and practitioners of mechanical engineering. Composed of six chapters,

*Fluid-Structure Interaction: An Introduction to Finite Element Coupling* progresses logically from formulations and applications involving structure and fluid dynamics, fluid and structure interactions and opens to reduced order-modelling for vibro-acoustic coupling. The author describes simple yet fundamental illustrative examples in detail, using analytical and/or semi-analytical formulation & designed both to illustrate each numerical method and also to highlight a physical aspect of FSI. All proposed examples are simple enough to be computed by the reader using standard computational tools such as MATLAB, making the book a unique tool for self-learning and understanding the basics of the techniques for FSI, or can serve as verification and validation test cases of industrial FEM/BEM codes rendering the book valuable for code verification and validation purposes.

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