

Fundamentals of Fluid-Solid Interactions: Analytical and Computational Approaches, 2008, 592 pages, Xiaodong (Sheldon) Wang, 0080559700, 9780080559704, Elsevier, 2008

This book focuses on the computational and theoretical approaches to the coupling of fluid mechanics and solids mechanics. In particular, nonlinear dynamical systems are introduced to the handling of complex fluid-solid interaction systems, For the past few decades, many terminologies have been introduced to this field, namely, flow-induced vibration, aeroelasticity, hydroelasticity, fluid-structure interaction, fluid-solid interaction, and more recently multi-physics problems. Moreover, engineering applications are distributed within different disciplines, such as nuclear, civil, aerospace, ocean, chemical, electrical, and mechanical engineering. Regrettably, while each particular subject is by itself very extensive, it has been difficult for a single book to cover in a reasonable depth and in the mean time to connect various topics. In light of the current multidisciplinary research need in nanotechnology and bioengineering, there is an urgent need for books to provide such a linkage and to lay a foundation for more specialized fields.- Interdisciplinary across all types of engineering- Comprehensive study of fluid-solid interaction- Discusses complex system dynamics derived from interactive systems- Provides mathematic modeling of biological systems

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Variational methods in engineering proceedings of the 2nd International Conference, University of Southampton, England, July 1985, C. A. Brebbia, 1985, Technology & Engineering, 538 pages. .

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DCAMM Report , , 2004, Mechanics, Applied, . .

Winter Annual Meeting Technical papers presented and available, American Society of Mechanical Engineers, 1997, Mechanical engineering, . .

Proceedings , Air Force Flight Dynamics Laboratory (U.S.), Air Force Institute of Technology (U.S.),

1969, Structural analysis (Engineering), 1453 pages. .

Elements of Structural Dynamics A New Perspective, Debasish Roy, G. V. Rao, Sep 17, 2012, Science, 438 pages. Structural dynamics is a subset of structural analysis which covers the behavior of structures subjected to dynamic loading. The subject has seen rapid growth and also change.

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