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A FINITE ELEMENT PROCEDURE FOR CALCULATING FLUID-STRUCTURE INTERACTION USING MSC/NASTRAN (PAPERBACK)

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Independently Published, United States, 2018. Paperback. Condition: New. Language: English. Brand new Book. This report is intended to serve two purposes. The first is to present a survey of the theoretical background of the dynamic interaction between a non-viscid, compressible fluid and an elastic structure is presented. Section one presents a short survey of the application of the finite element method (FEM) to the area of fluid-structure-interaction (FSI). Section two describes the mathematical foundation of the structure and fluid with special emphasis on the fluid. The main steps in establishing the finite element (FE) equations for the fluid structure coupling are discussed in section three. The second purpose is to demonstrate the application of MSC/NASTRAN to the solution of FSI problems. Some specific topics, such as fluid structure analogy, acoustic absorption, and acoustic contribution analysis are described in section four. Section five deals with the organization of the acoustic procedure flowchart. Section six includes the most important information that a user needs for applying the acoustic procedure to practical FSI problems. Beginning with some rules concerning the FE modeling of the coupled system, the NASTRAN USER DECKs for the different steps are described. The goal of section seven is to demonstrate the use of the acoustic procedure with some examples. This demonstration includes an analytic verification of selected FE results. The analytical description considers only some aspects of FSI and is not intended to be mathematically complete. Finally, section 8 presents an application of the acoustic procedure to vehicle interior acoustic analysis with selected results. Chargin, Mladen and Gartmeier, Otto Ames Research Center DYNAMIC STRUCTURAL ANALYSIS; FINITE ELEMENT METHOD; FLUID-SOLID INTERACTIONS; NASTRAN; ABSORPTIVITY; ACOUSTIC ATTENUATION; ACOUSTIC MEASUREMENT; COMPRESSIBLE FLUIDS; ELASTIC BODIES; INVISCID FLOW; STRUCTURAL VIBRATION.

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