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978-0-521-86574-6 - Introduction to structural dynamics - by Bruce K. Donaldson Excerpt. 1 The Lagrange Equations of Motion. 1.1 Introduction. A knowledge of the rudiments of dynamics is essential to understanding structural dynamics. Thus this chapter reviews the basic theorems of dynamics without any consideration of structural behavior.

INTRODUCTION TO STRUCTURAL DYNAMICS

Introduction to structural dynamics and aeroelasticity / Dewey H. Hodges, G. Alvin Pierce. p. cm. - (Cambridge aerospace series ; 15)

Includes bibliographical references and index.

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Dewey H Hodges, G Alvin Pierce. This text provides an introduction to structural dynamics and aeroelasticity, with an emphasis on conventional aircraft. The primary areas considered are structural dynamics, static aeroelasticity, and dynamic aeroelasticity. The structural dynamics material emphasizes vibration, the modal representation, and dynamic response.

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understanding of structural dynamics is important in the design and retrofit of structures to withstand severe dynamic loading from earthquakes, hurricanes, and strong winds, or to identify the occurrence and location of damage within an existing structure.

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Dewey H. Hodges is a professor in the School of Aerospace Engineering at the Georgia Institute of ...

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