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3.4.6. Industrial examples 3.5. Solution by direct integration; 3.5.1. Introduction; 3.5.2. Example of explicit method; 3.5.3. Example of implicit method; Chapter 4. The Modal Approach; 4.1. Introduction; 4.2. Normal modes; 4.2.1. Introduction; 4.2.2. Free structures; 4.2.3. System static condensation; 4.2.4. Eigenvalue problem solution; 4.3. Mode superposition; 4.3.1. Introduction; 4.3.2. Equation of motion transformation; 4.3.3. Problem caused by the damping; 4.3.4. Frequency resolution; 4.4. From the frequency approach to the modal approach; Chapter 5. Modal Effective Parameters

5.1. Introduction

Sommario/riassunto

Structural Dynamics in Industry focuses on the behavior of structures subjected to a vibrational or shock environment. It takes a systematic approach to the basic concepts in order to enhance the reader's understanding and to allow industrial structures to be covered with the necessary degree of depth. The developments are explained with a minimum of mathematics and are frequently illustrated with simple examples, while numerous industry case studies are also provided.