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| | Nota di contenuto | Cover; Vibration in Continuous Media; Title Page; Copyright Page; Table of Contents; Preface; Chapter 1. Vibrations of Continuous Elastic Solid Media; 1.1. Objective of the chapter; 1.2. Equations of motion and boundary conditions of continuous media; 1.2.1. Description of the movement of continuous media; 1.2.2. Law of conservation; 1.2.3. Conservation of mass; 1.2.4. Conservation of momentum; 1.2.5. Conservation of energy; 1.2.6. Boundary conditions; 1.3. Study of the vibrations: small movements around a position of static, stable equilibrium<br>1.3.1. Linearization around a configuration of reference1.3.2. Elastic solid continuous media; 1.3.3. Summary of the problem of small movements of an elastic continuous medium in adiabatic mode; 1.3.4. Position of static equilibrium of an elastic solid medium; 1.3.5. Vibrations of elastic solid media; 1.3.6. Boundary conditions; 1.3.7. |

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| Sommario/riassunto | Three aspects are developed in this book: modeling, a description of the phenomena and computation methods. A particular effort has been made to provide a clear understanding of the limits associated with each modeling approach. Examples of applications are used throughout the book to provide a better understanding of the material presented. |