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Lingua di pubblicazione Formato Livello bibliografico Nota di bibliografia Nota di contenuto	Computational Science and Engineering Structural Materials Inglese Materiale a stampa Monografia Includes bibliographical references and index. Two-Dimensional Theory of Composite Laminated Shells like "Sandwich" Buckling of Laminated Shells Free Vibrations of Viscoelastic Shells with Constant Physical Parameters Free and Forced Vibrations of Thin-Walled Laminated Structures with Adaptive Physical Properties Soft Suppression of Running Localized Vibrations in Laminated Magnetorheological Cylindrical Shells by Using Time- Dependent Magnetic Field.

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the equivalent single layer model for thin laminated cylindrical shells, including the special cases of plates and beams. In addition to the classical mechanical properties, it also considers the electrorheological and magnetorheological properties. Chapter 3 presents the elastic buckling of laminated beams, plates, and cylindrical shells, discussing various problems, such as the influence of the boundary conditions, external loading and magnetic fields. It also suggests different approximations for asymptotic methods. Chapter 4 focuses on the free vibrations of elastic laminated beams, plates and cylindrical shells, investigating the influence of the boundary conditions and other factors. Chapter 5 presents the latest results concerning vibration of laminated structures composed of smart materials and discusses in detail the influence of electric and magnetic fields on smart structures. These results provide insights into the optimal design of these structures. Lastly, Chapter 6 features a short appendix presenting asymptotic estimates and series. .