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Altri autori (Persone)	Malburet Francois
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Nota di bibliografia	Includes bibliographical references (p. [335]-338) and index.
Nota di contenuto	Notions of instability -- Rotor-structure coupling : ground resonance and air resonance examples -- Chain torsion : instability of feedback systems -- Self-excited vibrations -- Fluid-structure interaction.
Sommario/riassunto	This book presents a study of the stability of mechanical systems, i.e. their free response when they are removed from their position of equilibrium after a temporary disturbance. After reviewing the main analytical methods of the dynamical stability of systems, it highlights the fundamental difference in nature between the phenomena of forced resonance vibration of mechanical systems subjected to an imposed excitation and instabilities that characterize their free response. It specifically develops instabilities arising from the rotor-structure coupling, instability of control systems, the se