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Titolo	Fluid - structure interactions [e-book] : slender structures and axial flow
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Nota di contenuto	Axial flow; fluid-structure interactions; flow-induced vibration; slender structures; shells; plates; cylinders; cylinder clusters; annular flow; collapsible tubes; haemodynamics; pulmonary dynamics; acoustic arrays; heat exchanges; nuclear reactors; travelling web; spinning disks; coaxial cylinders; coaxial shells; rotating shafts; CFD; engineering applications
Sommario/riassunto	The text is richly illustrated, lightly written and more wide-ranging than Volume 1. A comprehensive treatment of fluid-structure interactions involving axial flow and slender structures, such as piping, human veins, aircraft, nuclear reactor fuel and submarine skins. The emphasis is on fundamentals, particularly on the physical understanding and underlying mechanisms, as well as on applications. This book will be invaluable for researchers, professional engineers, applied scientists and students involved in the design, study or operation of systems involving fluid flow, internal or external structures, wind or ocean currents Emphasizes real-world analysis of problems encountered in the field and presents their solutions A practical and thorough literature review of over 1400 references, an excellent reference document Bridges the gap between academic researchers and practitioners in industry