

1. Record Nr.	UNINA9911006835103321
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Titolo	Fluid-structure interactions : cross-flow-induced instabilities / / Michael P. Paidoussis, Stuart J. Price, Emmanuel de Langre
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
ISBN	1-107-21311-8 1-282-94842-3 9786612948428 0-511-85972-4 0-511-85624-5 0-511-85798-5 0-511-86059-5 0-511-85711-X 0-511-76079-5 0-511-85885-X
Descrizione fisica	1 online resource (x, 402 pages) : digital, PDF file(s)
Disciplina	624.1/7
Soggetti	Fluid-structure interaction Unsteady flow (Fluid dynamics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Prisms in cross-flow -- galloping -- Vortex-induced vibrations -- Wake-induced instabilities of pairs and small groups of cylinders -- Fluidelastic instabilities in cylinder arrays -- Ovalling instabilities of shells in cross-flow -- Rain-and-wind induced vibrations.
Sommario/riassunto	Structures in contact with fluid flow, whether natural or man-made, are inevitably subject to flow-induced forces and flow-induced vibration: from plant leaves to traffic signs and to more substantial structures, such as bridge decks and heat exchanger tubes. Under certain conditions the vibration may be self-excited, and it is usually referred to as an instability. These instabilities and, more specifically, the conditions under which they arise are of great importance to designers and operators of the systems concerned because of the significant

potential to cause damage in the short term. Such flow-induced instabilities are the subject of this book. In particular, the flow-induced instabilities treated in this book are associated with cross-flow, that is, flow normal to the long axis of the structure. The book treats a specific set of problems that are fundamentally and technologically important: galloping, vortex-shedding oscillations under lock-in conditions and rain-and-wind-induced vibrations, among others.
