

1. Record Nr.	UNINA9910463680303321
Autore	Charru Francois
Titolo	Hydrodynamic instabilities // Francois Charru ; translated by Patricia de Forcrand-Millard [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
ISBN	1-107-22532-9 1-283-29593-8 1-139-12277-0 9786613295934 1-139-11703-3 1-139-12769-1 1-139-11267-8 1-139-11486-7 0-511-97517-1
Descrizione fisica	1 online resource (xviii, 391 pages) : digital, PDF file(s)
Collana	Cambridge texts in applied mathematics ; ; 37
Disciplina	620.1/064
Soggetti	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	Machine generated contents note: Preface; 1. Introduction; 2. Instabilities of fluids at rest; 3. Stability of open flows: basic ideas; 4. Inviscid instability of parallel flows; 5. Viscous instability of parallel flows; 6. Instabilities at low Reynolds number; 7. Avalanches, ripples, and dunes; 8. Nonlinear dynamics of systems with few degrees of freedom; 9. Nonlinear dispersive waves; 10. Nonlinear dynamics of dissipative systems; 11. Dynamical systems and bifurcations; Appendix. The Saint-Venant equations; Bibliography; Index.
Sommario/riassunto	The instability of fluid flows is a key topic in classical fluid mechanics because it has huge repercussions for applied disciplines such as chemical engineering, hydraulics, aeronautics, and geophysics. This modern introduction is written for any student, researcher, or practitioner working in the area, for whom an understanding of hydrodynamic instabilities is essential. Based on a decade's experience

of teaching postgraduate students in fluid dynamics, this book brings the subject to life by emphasizing the physical mechanisms involved. The theory of dynamical systems provides the basic structure of the exposition, together with asymptotic methods. Wherever possible, Charru discusses the phenomena in terms of characteristic scales and dimensional analysis. The book includes numerous experimental studies, with references to videos and multimedia material, as well as over 150 exercises which introduce the reader to new problems.

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2. **Record Nr.** UNINA990005361170403321  
**Autore** Castagnoli, Ferdinando <1917-1988>  
**Titolo** Satrico / Ferdinando Castagnoli  
**Pubbl/distr/stampa** Firenze, : Istituto Geografico Militare, 1963

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**Descrizione fisica** 508-512 p. : ill. ; 26 cm

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**Locazione** FLFBC

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**Collocazione** ARCH. BM MISC. 149 (24)  
ARCH. BM MISC. 147 (01)

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**Lingua di pubblicazione** Italiano

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**Formato** Materiale a stampa

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**Livello bibliografico** Monografia

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**Note generali** Estratto da: "L'Universo" rivista bimestrale dell'Istituto Geografico Militare. Anno XLIII-N. 3-Maggio-Giugno 1963

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3. Record Nr.	UNICAMPANIAVAN00278449
Titolo	Lie theory and its applications in physics : Sofia, Bulgaria, June 2021 / Vladimir Dobrev editor
Pubbl/distr/stampa	Singapore, : Springer, 2022
Descrizione fisica	xv, 542 p. : ill. ; 24 cm
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia