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Autore	Shklyaev Sergey
Titolo	Longwave Instabilities and Patterns in Fluids // by Sergey Shklyaev, Alexander Nepomnyashchy
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Birkhäuser, , 2017
ISBN	1-4939-7590-0
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVI, 456 p. 65 illus., 18 illus. in color.)
Collana	Advances in Mathematical Fluid Mechanics, , 2297-0320
Disciplina	620.1064
Soggetti	Mathematical physics Fluids Fluid mechanics Mathematical Applications in the Physical Sciences Fluid- and Aerodynamics Mathematical Physics Engineering Fluid Dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction -- Convection in Cylindrical Cavities -- Convection in Liquid Layers -- Convection in Binary Liquids. Amplitude Equations for Stationary and Oscillatory Patterns -- Instabilities of Parallel Flows -- Instabilities of Fronts -- Longwave Modulations of Shortwave Patterns -- Control of Longwave Instabilities -- Outlook -- A. Solvability Conditions for an Inhomogenous Linear Boundary Value Problem -- B. Types of Bifurcations -- C. Stationary Pattern Selection -- D. Regular Wave Patterns -- E. Resonant Perturbations.
Sommario/riassunto	This book summarizes the main advances in the field of nonlinear evolution and pattern formation caused by longwave instabilities in fluids. It will allow readers to master the multiscale asymptotic methods and become familiar with applications of these methods in a variety of physical problems. Longwave instabilities are inherent to a variety of systems in fluid dynamics, geophysics, electrodynamics, biophysics, and many others. The techniques of the derivation of longwave amplitude equations, as well as the analysis of numerous nonlinear

equations, are discussed throughout. This book will be of value to researchers and graduate students in applied mathematics, physics, and engineering, in particular within the fields of fluid mechanics, heat and mass transfer theory, and nonlinear dynamics. .

2. Record Nr.	UNINA9911004878803321
Titolo	Atlantic Canada economic review = : Revue d'economie du Canada atlantique
Pubbl/distr/stampa	[Wolfville, Nova Scotia] : , : Atlantic Canada Economics Association, , [2019]-
ISSN	2818-0410
Classificazione	collissn cci1icc
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Abbreviated titles in header.