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	Collana	Notes on Numerical Fluid Mechanics and Multidisciplinary Design, , 1612-2909 ; ; 125
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	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index at the end of each chapters.
	Nota di contenuto	From the Contents: Thermal Boundary Layer Instabilities In Near Critical Fluids -- Penalty Methods For Turbulent Flows Interacting With Obstacles -- Direct Numerical Simulation Of Particle Turbulence Interaction In Forced Turbulence -- Wake Instabilities Behind An Axisymmetric Bluff Body At Low Reynolds Numbers.
	Sommario/riassunto	The book presents a snapshot of the state-of-art in the field of turbulence modeling and covers the latest developments concerning direct numerical simulations, large eddy simulations, compressible turbulence, coherent structures, two-phase flow simulation, and other related topics. It provides readers with a comprehensive review of both theory and applications, describing in detail the authors' own experimental results. The book is based on the proceedings of the third Turbulence and Interactions Conference (TI 2012), which was held on June 11-14 in La Saline-les-Bains, La Réunion, France, and includes both keynote lectures and outstanding contributed papers presented at

the conference. This multifaceted collection, which reflects the conference´s emphasis on the interplay of theory, experiments and computing in the process of understanding and predicting the physics of complex flows and solving related engineering problems, offers a practice-oriented guide for students, researchers and professionals in the field of computational fluid dynamics, turbulence modeling and related areas.   .