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Titolo	Advances in fluid mechanics : modelling and simulations // Dia Zeidan [and three others], editors
Pubbl/distr/stampa	Singapore : , : Springer, , [2022] ©2022
ISBN	981-19-1438-9
Descrizione fisica	1 online resource (x, 232 pages) : illustrations (chiefly color), charts
Collana	Forum for Interdisciplinary Mathematics
Disciplina	620.106
Soggetti	Fluid mechanics Mathematical models Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Computational fluid dynamics applications in cardiovascular medicine--from medical image-based modeling to simulation : numerical analysis of blood flows in abdominal aorta -- An improved density-based compressible flow solver in openFOAM for unsteady flow calculations -- Finite volume models and efficient simulation tools (EST) for shallow flows -- Overview of outfall discharge modeling with a focus on turbulence modeling approaches -- A unified algorithm for interfacial flows with incompressible and compressible fluids -- Stabilized finite element formulation and high-performance solver for slightly compressible Navier-Stokes equations.
Sommario/riassunto	This book provides invited and reviewed contributions in mathematical, physical and experimental modelling and simulations in all fluid mechanics branches.