1. Record Nr. UNINA9910483579503321

Titolo	Fluid-structure-sound interactions and control : proceedings of the 4th Symposium on Fluid-Structure-Sound Interactions and Control / / Yu Zhou [and five others], editors
Pubbl/distr/stampa	Gateway East, Singapore : , : Springer, , [2021] ©2021
ISBN	981-334-960-3
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XI, 384 p. 262 illus., 221 illus. in color.)
Collana	Lecture notes in mechanical engineering
Disciplina	620.1064
Soggetti	Fluid dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1. Turbulence and Unsteady Fluid Dynamics Chapter -- K41 vs K62: recent developments -- Jets and waves generated by an obstacle in stratified or homogeneous fluids -- Closed-loop turbulence control—From human to machine learning (and retour) -- Exploring a universal wake number for finiteheight bluff bodies -- Flow around a circular cylinder inside a bubble plume -- The effect of aspect ratio on the normal force and bending moment coefficients for a surfacemounted finite cylinder -- Numerical investigation of the post-stall flow patterns over a NACA 0021 hydrofoil with sinusoidal leading edge -- On the thresholds of vortex identification methods -- Power output of spring-mounted lifting plates in a cross flow -- Wake flow control of a finite wall-mounted cylinder with a horizontal hole -- Flow structures around a finite wall-mounted cylinder having an inclined hole -- Effects of reduced frequency on the behaviors of burst point around a pitching double delta wing -- Drag reduction of an Ahmed body using combined steady blowings -- Control of the aerodynamic forces of a cantilevered square cylinder with free-end suction -- Jet control using the coaxial type DBD-PA by burst modulation -- Unsteady flow structure behind a low-drag Ahmed body -- Effect of structural stiffness on the stability of pulsatile Poiseuille flow through a compliant channel.
Sommario/riassunto	This book contains a thorough and unique record of recent advances in

the important scientific fields fluid–structure interaction, acoustics and control of priority interest in the academic community and also in an industrial context regarding new engineering designs. It updates advances in these fields by presenting state-of-the-art developments and achievements since the previous Book published by Springer in 2018 after the 4th FSSIC Symposium. This book is unique within the related literature investigating advances in these fields because it addresses them in a complementary way and thereby enhances cross-fertilization between them, whereas other books treat these fields separately.