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Titolo	Advances in Mechanical and Power Engineering : Selected Papers from The International Conference on Advanced Mechanical and Power Engineering (CAMPE 2021), October 18-21, 2021 / / edited by Holm Altenbach, Alexander H.-D. Cheng, Xiao-Wei Gao, ndrii Kostikov, Wladyslaw Kryllowicz, Piotr Lampart, Viktor Popov, Andrii Rusanov, Stavros Syngellakis
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Descrizione fisica	1 online resource (390 pages)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Disciplina	780 621
Soggetti	Electric power production Fluid mechanics Composite materials Thermodynamics Heat engineering Heat - Transmission Mass transfer Mechanical Power Engineering Engineering Fluid Dynamics Composites Engineering Thermodynamics, Heat and Mass Transfer
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Modeling of aeroelastic instability of fan blades -- Experimental studies of pump-turbine flow part models at heads of 80-120 m -- Thermodynamic Analysis and Optimization of the Cycle of a CHP Plant Power Unit Operating with Ultra-Supercritical Steam Parameters.
Sommario/riassunto	This book covers theoretical and experimental findings at the interface between fluid mechanics, heat transfer and energy technologies. It

reports on the development and improvement of numerical methods and intelligent technologies for a wide range of applications in mechanical, power and materials engineering. It reports on solutions to modern fluid mechanics and heat transfer problems, on strategies for studying and improving the dynamics and durability of power equipment, discussing important issues relating to energy saving and environmental safety. Gathering selected contributions to the XIV International Conference on Advanced Mechanical and Power Engineering (CAMPE 2021), held online on October 18-21, 2021, from Kharkiv, Ukraine, this book offers a timely update and extensive information for both researchers and professionals in the field of mechanical and power engineering.