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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 XV International Conference on Advanced Mechanical and Power Engineering (CAMPE 2023), held online on October 16-19, 2023, 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.

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