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Nota di contenuto	Design and Performance Analysis of Cooling Fan Propeller with higher flow rate by utilising the Eppler 387 airfoil -- Experimental Investigations for the Particulate Matter and Ultra-fine Particles Emissions during the Flame Combustion of Alumina- and Ceria-laden Diesel Fuel -- Optimization of Core Coolant Flow Rate Measurement Mechanism for Fast Breeder Reactor -- Flow and heat transfer of micropolar fluid in porous medium existing between parallel solid plates -- CFD analysis of die at Non-Newtonian and Non-isothermal condition -- Comparative analysis of independent metering and digital directional valve controlled power actuator system using simulation study -- Influence of Spray Quality on Flame Lift-off and Lean Blowout Condition of Swirl Stabilized Burner -- Experimental Thermo-Hydraulic Investigation on Packed Bed Thermal Energy Storage System Using Phase Change Material -- Application of Machine Learning in Heat Conduction through a Body of Heterogeneous Material -- Magneto Rheological Fluid Devices for Automotive Applications.
Sommario/riassunto	This book presents select proceedings of the 10th International and

50th National Conference on Fluid Mechanics and Fluid Power. It covers recent research developments in the area of fluid mechanics, measurement techniques in fluid flows, computational fluid dynamics. The key research topics discussed in this book are fundamental studies in flow instability and transition, fluid-structure interaction, multiphase flows, solidification, melting, cavitation, porous media flows, bubble and droplet dynamics, bio-mems, micro-scale experimental techniques, flow control devices, underwater vehicles, bluff body, bio-fluid mechanics, aerodynamics, turbomachinery, propulsion and power, heat transfer and thermal engineering, fluids engineering, advances in aerospace and defense technology, micro- and nano-systems engineering, acoustics, structures and fluids, advanced theory and simulations, novel experimental techniques in thermofluids engineering, and many more. The book is a valuable reference for researchers and professionals interested in thermo-fluids engineering.