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Sommario/riassunto	This volume comprises select proceedings of the 1st International Conference on Heat Transfer and Fluid Dynamics (AHTFD 22). It covers latest research trends and development in diverse areas like fluid-structure interaction (FSI), aerodynamics, complex fluid phenomenon, turbulence, flow control, thermal management, green buildings, micro and nanoscale transport phenomena in biological systems, renewable energy, power generation, combustion, refrigeration/air-conditioning,

artificial intelligence and machine learning applications in heat transfer and fluid dynamics, among others. The book will be a valuable resource for researchers and professionals working in the various areas of mechanical engineering.