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this book serves as a comprehensive guide to the fundamental and advanced principles of flow dynamics and heat transfer emphasizing computational techniques numerical simulations and real world applications designed for researchers engineers and students this book bridges theoretical foundations with modern computational and experimental methodologies to address contemporary challenges in fluid flow and heat transfer exploring a wide range of topics from compressible and non newtonian fluid flow to microscale and nanoscale heat transfer mechanisms the book provides insights into emerging technologies and optimization strategies readers will gain valuable knowledge on industrial applications including turbine cooling nanofluid based heat exchangers and ai driven predictive modeling for thermal systems an essential reference for professionals and academics this book equips readers with the knowledge and

computational tools needed to solve complex fluid flow and heat transfer challenges across diverse engineering disciplines

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this volume is dedicated to professor okyay kaynak to commemorate his life time impactful research and scholarly achievements and outstanding services to profession the 21 invited chapters have been written by leading researchers who in the past have had association with professor kaynak as either his students and associates or colleagues and collaborators the focal theme of the volume is the sliding modes covering a broad scope of topics from theoretical investigations to their significant applications from control to intelligent mechatronics

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