Casati / Georgakopoulos / Shang

Technologies for E-Services

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Welcome to Free Convection Film Flows and Heat Transfer! Free convection ?lm ?ows occur in many industrial processes. However, engineers still have to deal with many unresolved problems. This book systematically summarizes my recent research results that have been referred to and cited by many other researchersinthis? eld.Thepurposeofthisbookistoprovideapracticalguide to university students, graduate students, design engineers, researchers, and scientistswhowishtofurtherunderstandthecharacteristicsoffreeconvection ?lm ?ows and heat transfer. I hope this book will serve as a useful tool for them, as well as a guide to future research. This book includes three related parts (1) accelerating convective bou- ary layers of Newtonian ?uids, (2) accelerating ?lm boiling and condensation of Newtonian ?uids, and (3) accelerating ?lm ?ows of non-Newtonian pow- law ?uids. These phenomena are all caused by buoyancy or gravity, and can be summed up in terms of the free convection ?lm ?ows. In addition, the free convection ?lm ?ows of Newtonian ? uids can be taken as a special case of non-Newtonian power-law ?uids.

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