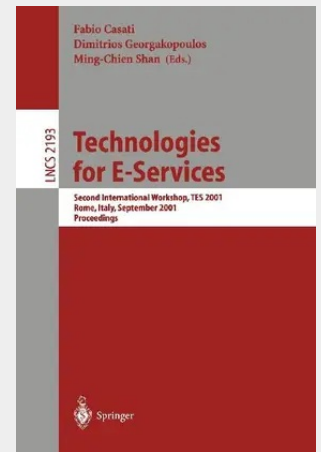


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Welcome to Free Convection Film Flows and Heat Transfer! Free convection flows occur in many industrial processes. However, engineers still have to deal with many unresolved problems. This book systematically summarizes my recent research results that have been referred to and cited by many other researchers in this field. The purpose of this book is to provide a practical guide to university students, graduate students, design engineers, researchers, and scientists who wish to further understand the characteristics of free convection flows 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 boundary layers of Newtonian fluids, (2) accelerating film boiling and condensation of Newtonian fluids, and (3) accelerating flows of non-Newtonian power-law fluids. These phenomena are all caused by buoyancy or gravity, and can be summed up in terms of the free convection flows. In addition, the free convection flows of Newtonian fluids can be taken as a special case of non-Newtonian power-law fluids.

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