

# Lecture Notes in Physics

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Flow of Real Fluids

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## Preface

This book commemorates the occasion of the 60th birthday of our friend and colleague Dr. Ernst-August Müller, Professor for Applied Mechanics and Fluid Mechanics at the Georg-August Universität and Direktor at the Max-Planck-Institut für Strömungsforschung in Göttingen. It is a remarkable coincidence that Professor Müller's birthday falls on the 60th anniversary of the founding of the Max-Planck-Institut für Strömungsforschung by Ludwig Prandtl.

We appreciate very much that many of his scientific colleagues, friends and former students have enthusiastically dedicated the included papers on modern aspects of nonstationary, compressible, realgas and viscous flows to Professor Müller to honour him as a warm-hearted colleague and an internationally respected scientist. We also acknowledge the support of the editorial work by many of our colleagues and the institute's staff.

This book will support the impression that modern fluid mechanics is a very lively field, where the pace of progress in understanding fundamental phenomena is remarkable, but where many important problems in the field of the flow of real fluids are still unresolved. The essential results in fluid mechanics are successfully applied in many other scientific fields from meteorology to cosmology, from biology to medicine, and from mechanical engineering to chemistry.

It has always been one of E.-A. Müller's basic goals to search for the fundamentals of fluid mechanics and to support their application in other fields. Hence, we are confident that he will be pleased by the papers dedicated to him on his birthday.

Göttingen, September 1985

G.E.A. Meier

F. Obermeier



Ernst - August Müller

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