



Advances in Engineering Fluid Mechanics: Mixed-Flow Hydrodynamics (Advances in Engineering Fluid Mechanics Series)

Nicholas P Cheremisinoff Consulting Engineer

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The subject of fluid dynamics has implications in all fields of engineering and manufacturing. Nowhere is it more pronounced than in chemical and mechanical engineering applications, to which many of today's manufacturing and process operations owe their origins. Modern manufacturing operations for numerous petrochemicals used throughout the world have a common thread - the movement, mixing, handling, exchange and processing of fluids. As applied in this volume, fluid refers to any material displaying liquid-like behaviour under the influence of deformation forces. This includes not only single-phase liquids, but granular or powdery solids, two-phase systems, such as gas-liquid mixtures, gas-solid mixtures, immiscible liquid-liquid mixtures, fluids undergoing phase changes, and even three-phase mixtures. This volume, the first in a newly retitled series, covers recent advances on mixed-flow multiphase systems and the transport processes associated with turbulent mixing. The 38 chapters cover a variety of research and new innovations in jet mixing, mechanical agitation, fluidized bed reactors and multiphase chemical reactors. Both numerical and experimental studies are reported, along with literature reviews of the various subject areas presented. As in preceding volumes of the related "Encyclopedia of Fluid Mechanics" series, this book represents the efforts of a large number of contributors. It presents the studies and expertise of 78 international contributors.

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