



Particle Image Velocimetry: A Practical Guide (Experimental Fluid Mechanics)

By Markus Raffel, Christian E. Willert, Steven T. Wereley, Jürgen Kompenhans

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This immensely practical guide to PIV provides a condensed, yet exhaustive guide to most of the information needed for experiments employing the technique. This second edition has updated chapters on the principles and extra information on microscopic, high-speed and three component measurements as well as a description of advanced evaluation techniques. What's more, the huge increase in the range of possible applications has been taken into account as the chapter describing these applications of the PIV technique has been expanded.

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Editorial Review

From the Back Cover

This practical guide intends to provide comprehensive information on the PIV technique that in the past decade has gained significant popularity throughout engineering and scientific fields involving fluid mechanics. Relevant theoretical background information directly support the practical aspects associated with the planning, performance and understanding of experiments employing the PIV technique.

The second edition includes extensive revisions taking into account significant progress on the technique as well as the continuously broadening range of possible applications which are illustrated by a multitude of examples. Among the new topics covered are high-speed imaging, three-component methods, advanced evaluation and post-processing techniques as well as microscopic PIV, the latter made possible by extending the group of authors by an internationally recognized expert.

This book is primarily intended for engineers, scientists and students, who already have some basic knowledge of fluid mechanics and non-intrusive optical measurement techniques. It shall guide researchers and engineers to design and perform their experiment successfully without requiring them to first become specialists in the field. Nonetheless many of the basic properties of PIV are provided as they must be well understood before a correct interpretation of the results is possible.

Review

From the reviews of the second edition:

"This second edition of a text first published in 1998 represents a comprehensive reference written by noted experts in the field on the particle image velocimetry (PIV) technique. ... Particle Image Velocimetry ... represents the most comprehensive reference on the PIV technique to date. ... the second edition of this book will undoubtedly serve the PIV community, novice and advanced users" (Kenneth T. Christensen, AIAA Journal, Vol. 46 (11), November, 2008)

Users Review

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