

1. Record Nr.	UNINA9910966746603321
Titolo	Flow visualization : techniques and examples // editors, A.J. Smits, T.T. Lim
Pubbl/distr/stampa	London, : Imperial College Press, c2012
ISBN	1-299-46211-1 1-84816-792-X
Edizione	[2nd ed.]
Descrizione fisica	1 online resource
Altri autori (Persone)	SmitsAlexander J LimT. T
Disciplina	681.28
Soggetti	Flow visualization Fluid dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previous ed.: London: Imperial College Press, 2000.
Nota di bibliografia	Includes bibliographical references and index.
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Sommario/riassunto

This is the 2nd edition of the book, "Flow Visualization: Techniques and Examples," which was published by Imperial College Press in 2000. Many of the chapters have been revised and updated to take into consideration recent changes in a number of flow visualization and measurement techniques, including an updated high quality flow gallery. Unique among similar publications, this book focuses on the practical rather than theoretical aspects. Obtaining high quality flow visualization results is, in many ways, more of an art than a science, and experience plays a key deciding role. The depth and breadth of the material will make this book invaluable to readers of all levels of experience in the field. Sample Chapter(s) Chapter 1: Interpretation of Flow Visualization (4633 KB) Contents: Interpretation of Flow VisualizationHydrogen Bubble VisualizationDye and Smoke VisualizationMolecular Tagging Velocimetry and ThermometryPlanar Imaging of Gas Phase FlowsDigital Particle Image VelocimetrySurface Temperature Sensing with Thermochromic Liquid CrystalsPressure and Shear Sensitive CoatingsMethods for Compressible FlowsThree-Dimensional ImagingQuantitative Flow Visualization via Fully Resolved Four-Dimensional ImagingVisualization, Feature Extraction, and Quantification of Numerical Visualizations of High-Gradient Compressible FlowsColor Plates and Flow Gallery Readership: Undergraduate and graduate students as well as researchers in flow visualization.