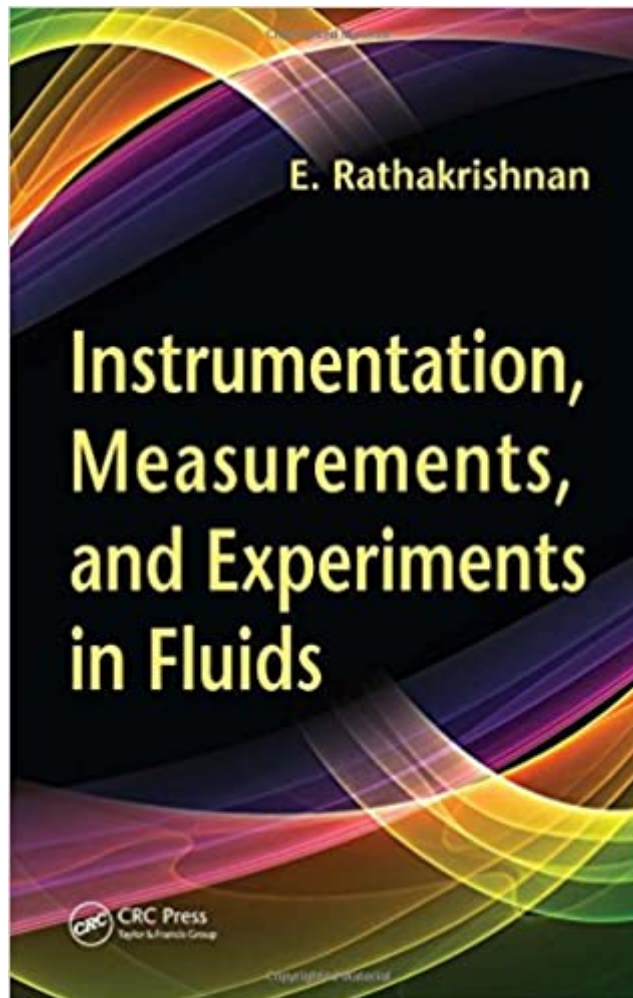




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Instrumentation, Measurements, And Experiments In Fluids



Synopsis

Mechanical engineers involved with flow mechanics have long needed an authoritative reference that delves into all the essentials required for experimentation in fluids, a resource that can provide fundamental review, as well as the details necessary for experimentation on everything from household appliances to hi-tech rockets. *Instrumentation, Measurements, and Experiments in Fluids* meets this challenge, as its author is not only a highly respected pioneer in fluids, but also possesses twenty years experience teaching students of all levels. He clearly explains fundamental principles as well the tools and methods essential for advanced experimentation. Reflecting an awe for flow mechanics, along with a deep-rooted knowledge, the author has assembled a fourteen chapter volume that is destined to become a seminal work in the field. Providing ample detail for self study and the sort of elegant writing rarely found in so thorough a treatment, he provides insight into all the vital topics and issues associated with the devices and instruments used for fluid mechanics and gas dynamics experiments. Extremely organized, this work presents easy access to the principles behind the science and goes on to elucidate the current research and findings needed by those seeking to make further advancement. Unique and Thorough Coverage of Uncertainty Analysis The author provides valuable insight into the vital issues associated with the devices used in fluid mechanics and gas dynamics experiments. Leaving nothing to doubt, he tackles the most difficult concepts and ends the book with an introduction to uncertainty analysis. Structured and detailed enough for self study, this volume also provides the backbone for both undergraduate and graduate courses on fluids experimentation.

Book Information

Hardcover: 520 pages

Publisher: CRC Press; 1 edition (May 21, 2007)

Language: English

ISBN-10: 0849307597

ISBN-13: 978-0849307591

Product Dimensions: 6.1 x 1.1 x 9.2 inches

Shipping Weight: 1.9 pounds

Average Customer Review: 5.0 out of 5 stars 3 customer reviews

Best Sellers Rank: #941,169 in Books (See Top 100 in Books) #93 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Sensors #252 in Books > Engineering & Transportation > Engineering > Chemical > Fluid Dynamics #511 in Books >

Customer Reviews

Second ed. of Instrumentation, measurements, and experiments in fluids, by CRC press was published on November 18, 2016.

Indian Institute of Technology, Kanpur, India

Student at Centrale Lyon Engineering School (France), I read this book and attended the corresponding lectures of Professor Rathakrishnan. It is an excellent means to learn experimental principles. All of the measurements tools and setups are very well described, with an explanation of the theory involved. I strongly recommend this book for researchers, students, engineers or professors who want to be much at ease with the experimental aspects in fluids .

"Instrumentation, Measurements, and Experiments in Fluids" is another must-read by Professor Rathakrishnan. The book presents very-well compiled, detailed-yet-precise information about various work practices, experimentation procedures and its pre-requisites, and commonly used measurement-cum-visualization techniques involved with the study of mechanics and dynamics associated with fluids. Firstly, theoretical information has been presented to create a background for the reader to understand the requirements for the use of proper instrumentation before application in real world. Then, the development and applications aspects are emphasized in a thorough manner, simultaneously highlighting all the shortcomings and limitations of any particular technique. A very rare-though-extremely-useful practice of explanation using basic engineering equations for instrumentation and flow devices has been included for concept clarification. A clear understanding about the uncertainty analysis related to the conduct of experiments has been included for accuracy consideration in measurements. Owing to a comprehension of broad spectrum of fundamentals along with application aspects, I am sure that this text will be of very high value for engineering students, experimentalists and designers.

"Instrumentation, Measurements, and Experiments in Fluids" will be a valuable reference resource to experimentalists, researchers & practitioners alike. The material is well presented in an informative, authoritative manner. The balance of fundamental theory, practical instrumentation, & application, guides the reader progressively to the end goal. The wind tunnel information is one of

the most valuable compilations of related information I have ever come across. The author provides the essential information from which a experimentalist-designer can develop & excel. The book has become part of my personal theoretical & design armory, & will be recommended reading material for all my heat-transfer clients. Thank you Prof. Rathakrishnan for an excellent job well done.

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