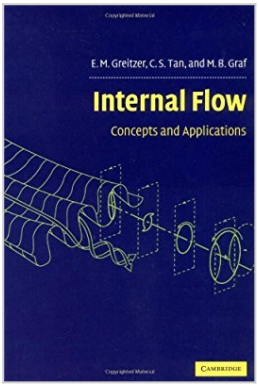

Internal Flow: Concepts and Applications (Cambridge Engine Technology Series)

By E. M. Greitzer, C. S. Tan, M. B. Graf

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This book describes the analysis and behaviour of internal flows encountered in propulsion systems, fluid machinery (compressors, turbines and pumps) and ducts (diffusers, nozzles and combustion chambers). The focus is on phenomena that are important in setting the performance of a broad range of fluid devices. The authors show that even for complex processes one can learn a great deal about the behaviour of such devices from a clear understanding and rigorous use of basic principles. Throughout the book they illustrate theoretical principles by reference to technological applications. The strong emphasis on fundamentals, however, means that the ideas presented can be applied beyond internal flow to other types of fluid motion. The book equips students and practising engineers with a range of new analytical tools. These tools offer enhanced interpretation and application of both experimental measurements and the computational procedures that characterize modern fluids engineering.

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Editorial Review

Review
"This is an excellent book on internal flows." AIAA Journal

About the Author
Edward M. Greitzer received his PhD from Harvard University and is the H. N. Slater Professor of Aeronautics and Astronautics at the Massachusetts Institute of Technology. Prior to joining MIT he was with the Pratt & Whitney Division of United Technologies Corporation. He has been a member of the U.S. Air Force Scientific Advisory Board, the NASA Aeronautics Advisory Committee, and Chair of the ASME International Gas Turbine Institute Board of Directors. He is a Fellow of the ASME and AIAA and was elected in 1995 to the National Academy of Engineering.

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