



Flow Control: Passive, Active, and Reactive Flow Management

By Mohamed Gad-el-Hak

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The ability to actively or passively manipulate a flow field to bring about a desired change is of immense technological and economical importance. This volume provides a thorough, up-to-date treatment of the basics of flow control and control practices that can be used to produce desired effects. The author explores the frontiers of flow control strategies, especially as applied to turbulent flows. Intended for engineering and physics students, researchers, and practitioners, Flow Control brings together in a single source a wealth of state-of-the-art information on this very active field.

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About the Author

Mohamed Gad-el-Hak is currently the Inez Caudill Eminent Professor of Biomedical Engineering and Chair of Mechanical Engineering at Virginia Commonwealth University. He is a fellow of the American Physical Society, the American Society of Mechanical Engineers, and the American Academy of Mechanics. In 1998, Professor Gad-el-Hak was named the Fourteenth ASME Freeman Scholar. In 1999, he was awarded the prestigious Alexander von Humboldt Prize, Germany's highest research award for senior U.S. scientists and scholars in all disciplines. In 2002, he was named ASME Distinguished Lecturer, as well as inducted into the Johns Hopkins University Society of Scholars.

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