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IUTAM Symposium on Unsteady Separated Flows and Their Control: Proceedings of the IUTAM Symposium Unsteady Separated Flows and Their Control, Corfu, Greece, 18-22 June 2007

By -

Springer. Paperback. Book Condition: New. Paperback. 586 pages. Dimensions: 8.8in. x 6.1in. x 1.4in. Unsteady separated flows are an important topic in theoretical and applied mechanics. The IUTAM Symposium held in Corfu in 2007 (and following on from a previous meeting in Toulouse in 2002) aimed at achieving a unified approach which will regroup the knowledge coming from theoretical, experimental, numerical simulation, modeling and flow-control aspects of separated unsteady flows with respect to incompressible and compressible flow regimes. Topics addressed include physical aspects of the dynamics related to unsteady separation in incompressible flows and flows under compressibility effects, and the state of the art methods for modeling these kinds of flows in high Reynolds numbers. Special attention is paid to control theory and applications, especially including feed-back effects for the attenuation of unsteadiness and of flow separation. The understanding of the flow-physics and their efficient turbulence modeling remains a serious problem in a number of engineering applications, including Aeronautics and Aeroelasticity. Furthermore, the study of advanced flow modeling techniques, especially to control high-Reynolds number transitional and turbulent flows involving unsteady separation, is a crucial need in the above-mentioned domains.

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