

Iutam Symposium On One Hundred Years Of Boundary Layer Research

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"Preface; - Session 1: Classification, Definition and Mathematics of Boundary Layers: Prandtl's Concept and the Work in Gttingen, by G.E.A. Meier; The Full Lifespan of the Boundary-Layer and Mixing-Length Concepts, by P.R. Spalart; Rational Basis of the Interactive Boundary Layer Theory, by J. Cousteix, J. Mauss; Symmetry Methods in Turbulent Boundary Layer Theory, by M. Oberlack, G. Khujadze; Viscous/Inviscid Interaction Procedures for Compressible Aerodynamic Flow Simulations, by M. Hafez, E. Wahba; - Session 2: Instability of Boundary Layers and Transition: The Application of Optimal Control to Boundary Layer Flow, by D. Henningson, A. Hanifi; Leading-Edge Boundary Layer Flow (Prandtl's Vision, Current Developments and Future Perspectives), by V. Theofilis, A. Fedorov, S.S. Collis; Application of Transient Growth Theory to Bypass Transition, by E. Reshotko, A. Tumin; Routes of Boundary-Layer Transition, by Y.S. Kachanov; Instabilities in Boundary-Layer Flows and their Role in Engineering, by J.D. Crouch; In-Flight Investigations of Tollmien-Schlichting Waves, by A. Seitz, K.-H. Horstmann; The Influence of Roughness on Boundary Layer Stability, by M. Gaster; Boundary-Layer Instabilities in Transonic Range of Velocities, with Emphasis on Upstream Advancing Wave Packets, by O.S. Ryzhov, E.V. Bogdanova-Ryzhova; Laminar-Turbulent-Laminar Transition Cycles, by R. Narasimha; - Session 3: Boundary Layers Control: A Century of Active Control of Boundary Layer Separation: A Personal View, by I. J. Wygnanski; Boundary Layer Separation Control by Manipulation of Shear Layer Reattachment, by P.R. Viswanath; Stability, Transition, and Control of Three-Dimensional Boundary Layers on Swept Wings, by W. Saric, H. Reed; Transition to Turbulence in 3-D Boundary Layers on a Rotating Disk(- Triad Resonance), by T. Corke, E.H. Matlis; Control and Identification of Turbulent" EAN/ISBN : 9781402041501 Publisher(s): Springer Netherlands Format: ePub/PDF Author(s): Meier, G. E. A. - Sreenivasan, K. R. - Heinemann, H.-J.

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