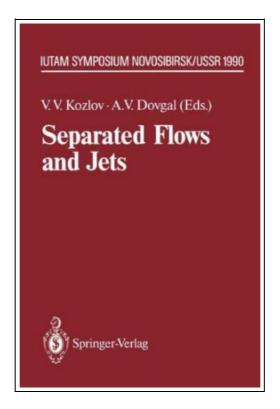
Separated Flows and Jets



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Reviews

It in a of my personal favorite ebook. It is probably the most awesome publication i have read through. You wont really feel monotony at anytime of the time (that's what catalogs are for regarding in the event you check with me).

(Juliet Kertzmann)

SEPARATED FLOWS AND JETS



Condition: New. Publisher/Verlag: Springer, Berlin | IUTAM-Symposium, Novosibirsk, USSR July 9-13, 1990 | Separated flows and jets are closely linked in a variety of applications. They are of great importance in various fields of fluid mechanics including vehicle efficiency, technical branches concerned with gas/liquid flows, atmospheric effects on various constructions, etc. Knowledge of the physics of separated flows and jets and the development of reliable control techniques are prerequisite for future progress in the field. These aspects were in focus during the IUTAM-Symposium which was held in Novosibirsk, 9-13 July, 1990. This volume contains a selection of papers presenting recent results of theoretical and numerical studies as well as experimental work on separated flows and jets. The topics include sub- and supersonic, laminar and turbulent separation as well as organized structures in separated flows and jets. The reader will find here the state of the art and major trends for research in this field of aero-hydrodynamics. | Session 1 Chairman J.L. van Ingen.- Analysis of simulations of topologically changing three-dimensional separated flows.- Belotserkovsky O.M. Gushin V.A. Direct numerical modelling: steady separation, coherent structures and transition to chaos.-Numerical simulation of separated flows by the splitting up method.- Break-up in steady and unsteady separation.- On Goldstein's singularity.- Marginal separation theory.- Effects of 3-D surface mounted obstacles on marginal separation.- Session 2 Chairman O. S. Ryzho.-Discontinuous solutions of boundary layer equations with positive pressure gradient.- Computation of trailing-edge separation using an accelerated, updated bluff-body, interacting boundary-layer algorithm. - Self-similar separation. - Digital simulation of separated and jet flows using discrete vortex method.- Poster session.- Topology of fundamental separation structures.- Basic equations of vortex fluid motion. Vortex-wave resonance.- Numerical investigation of turbulent separated flows in the near wake after body.- Asymptotic theory of the stationary flow around bluff bodies.- Modeling of the flows with...



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