



Separated Flows and Jets

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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...



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