



# **Unsteady Effects of Shock Wave induced Separation (Notes on Numerical Fluid Mechanics and Multidisciplinary Design)**

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## Unsteady Effects of Shock Wave induced Separation (Notes on Numerical Fluid Mechanics and Multidisciplinary Design)

This volume contains description of experimental and numerical results obtained in the UFAST project. The goal of the project was to generate experiment data bank providing unsteady characteristics of the shock boundary layer interaction. The experiments concerned basic-reference cases and the cases with application of flow control devices. Obtained new data bank have been used for the comparison with available simulation techniques, starting from RANS, through URANS, LES and hybrid RANS-LES methods. New understanding of flow physics as well as ability of different numerical methods in the prediction of such unsteady flow phenomena will be discussed.

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