



Fluid- and Gasdynamics

By Schnerr, G. H / Bohning, R.

Book Condition: New. Publisher/Verlag: Springer, Wien | Festschrift für Jürgen Zierep on The Occasion on his 65th Birthday | This volume offers a wide range of theoretical, numerical and experimental research papers on fluid dynamics. The major fields of research - fundamentals of fluid mechanics as well as their applications - are treated:- stability phenomena: convective flow, thermal and hydrodynamic systems- transition, turbulence and separation: boundary-layer, turbulent combustion, rarefied gasdynamics, near wall and off wall flow fields, energy dissipation- transonic flow: homogeneous condensation, shock-waves, effects at Mach number unity- hypersonic flow: flow over spheres, aerothermodynamics, relaxation- fluid machinery: axial fans, compressor cascades, fluid couplings- computational fluid dynamics: passive shock control, zonal computation, cylinderflow, flow over wings- miscellaneous problems. | 1: Stability Phenomena.- Dynamics of flow instabilities in thermal and hydrodynamic systems.- Spoke pattern convection.- Digital particle image velocimetry applied to a natural convective flow.- 2: Transition, Turbulence and Separation.- On singular solutions of the incompressible boundary-layer equation including a point of vanishing skin friction.- Turbulence and rarefied gasdynamics.- Flow attachment at flow separation lines. On uniqueness problems between wall-flows and off-wall flow fields.- Near-wall phenomena in turbulent separated flows.- On the interaction of wave-like disturbances with shocks - two idealizations...



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