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## Shock Waves

By Takayama, Kazuyoshi

Book Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the 18th International Symposium on Shock Waves, Held at Sendai, Japan 21-26 July 1991 | Shock wave research covers important interdisciplinary areas which range from basic topics on gasdynamics, combustion and detonation, physico-chemistry of high temperature gases, plasma physics, astro and geophysics, materials science, astronautics and space technology to medical and industrial applications. This book includes 202 papers presented at the 18th the International Symposium on Shock Waves which describe the research frontier of shock wave phenomena and 14 plenary lectures which show the state of the art of various fields of shock wave research. This proceedings is a unique collection of most important and updated shock wave research. | Plenary lectures.- Shock tube application: High enthalpy European wind tunnels.- Research issues of concern: Scientific and medical.- Vorticity in shock-accelerated density-stratified interfaces: Deposition and "intermediate" time evolution of coherent structures.- Modern shock-capturing schemes.- Effects of focused shock waves on biological tissues: Cavitation in the prefocal region and the fluid flow in the focal region.- Shock tube studies of combustion chemistry.- Studies in shock waves, liquid impact, jets and cavitation.- The shock tube technique applied to study aerosol rate processes.- Shock-interface...



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