

超音速噴流數值研究

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摘要

The basic idea of this research is to establish a numerical simulation, which analyzes the effect of compressibility of supersonic jet flow phenomena. The numerical simulation method adopted is the "WENO" schem developed for compressible flow solving the Navier-Stokes equation directly. The programming scheme employs "LU-SSOR " to increase numerical stability. This study also reveals the vortex growth and turbulent characteristics within the subsonic mixing layer. The results of this numerical simulation agree with correct applications.

關鍵字 : Keywords: Jet; Supersonic; WENO