

MULTI-TIME-STEP SCHEME IN THE VORTICITY SPLITTING METHOD APPLIED TO THE SIMULATION OF THE WAKE BEHIND THE FLAT PLATE

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The Vorticity Splitting Method is applied to the simulation of the wake behind the longitudinal streamlined flat plate. Moreover the Multi-Time-Step Scheme is used in the numerical algorithm because the differences in the rates of convection and diffusion processes. The method is allowed results obtaining with fine accuracy in the wide range of Reynolds numbers.

Streamline, direct numerical simulation, vorticity splitting method, wake, flat plate, diffusion, convection, multi-time-step integration, Reynolds number

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