عنوان مقاله:

STYDY OF TURBULENT FLOW OVER A SQUARE CYLINDER BY LARGE EDDY SIMULATION

محل انتشار:

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

Large Eddy Simulation of flow over a square cylinder in a channel is performed at Reynolds number of 22000. The Selective Structure Function modeling (SSF) of the subgrid-scale stress terms is used and the convective terms are discretized using QUICK scheme. A series of time-averaged velocities, turbulent stresses and some global flow parameters such as lift and drag coefficients and their fluctuations are computed and compared with experimental data. The suitability of SSF model has been shown by comparing the computed mean flow velocities and turbulent quantities with experiments.

کلمات کلیدی:

Square cylinder – Large Eddy Simulation – Selective Structure Function

لینک ثابت مقاله در پایگاه سیویلیکا:

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