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*of a NACA 0012 airfoil
flow at $M=0.4$,
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The obtained numerical simulation results are in good agreement with the numerical results of

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other authors and the experimental data. In addition, to select the optimal turbulent model, the obtained simulation results for different turbulent models were compared with experimental data.

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which will be of

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that involve fluid
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used to perform the
calculations required

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to simulate the free-
stream flow of the

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fluid, and the

interaction of the fluid

with surfaces defined

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boundary conditions. With high-speed

supercomputers,

better solutions can

be achieved, and are

often required to solve

the largest and most

complex problems.

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Computational fluid dynamics -

Wikipedia

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each domain : fluids
and structures with a
timestep adapted to

each domain of

resolution thus

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method or a different

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can be used to solve

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iteration are used in

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approach. These methods solve the nonlinear flow equations and the structural equations in the entire fluid and solid domain with the Newton–Raphson method.

Fluid–structure interaction - Wikipedia

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flows has been so

relevant that CFD

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based moment
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with particular
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