

Examples of cases

Isothermal incompressible flows

- 2D Eddy convection in a uniform velocity field
 - 2D laminar channel flow
 - 2D laminar channel flow with a constriction
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Incompressible flows with heat transfer (conduction & advection)

- 2D laminar channel flow containing a heated square bar
 - 2D channel flow with a thermally conductive square bar heated from the top wall
 - 2D heat-driven cavity flow
 - 2D Rayleigh-Bénard flow
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Incompressible flows with heat transfer (conduction & advection & radiative transfer)

- 3D heat-driven cavity flow coupled with Real Gas Radiation
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Low Mach number flows

- successive compression cycles of a 2D quasi-adiabatic cavity
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Thermo-acoustics

- 2D model for the Atchley's experiment
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