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more boundaries of a computational region is an important and useful computational tool pressure boundaries represent such things as confined reservoirs of fluid ambient laboratory conditions and applied pressures arising from mechanical devices generally a pressure condition cannot be used at a boundary where velocities are also specified

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computational fluid dynamics is simulation and analysis performed in computer aided design cad software to calculate the flow of liquids or gases in or around a product it is a multiphysics solution since it involves the interaction of multiple phenomena including fluid dynamics thermodynamics and conservation of momentum

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by now cfd computational fluid dynamics meaning numerical solving of any fluid mechanical problem is an industry of its own and we must refer the reader to the specific literature for most of the details 2 12 13 21 as is common practice cfd is a three step process 1 construct a 3d mesh from the geometry given pre processing 2

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