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- Soln of the NS eqns is complicated by the lack of an independent eqn for the pressure, whose gradient contributes to each of the 3 momentum eqns
- Treat this difficulty by constructing the pressure field so as to guarantee satisfaction of the continuity eqn
- Note: absolute pressure is of no significance; only the gradient of the pressure (pressure difference) affects the flow
- In compressible flows, the continuity eqn can be used to determine the density and the pressure is calculated from an eqn of state





























































