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altitude is 0.73 kg/m3. The drag on the plane is 6250 N. Calorific value of the fuel is 48,000 kJ/kg, Calculate the absolute velocity of the jet, diameter of the jet and power output of the unit in kW.

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Solved Problems: Jet Propulsion

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Compressible flow (or gas dynamics) is the branch of fluid mechanics that deals with flows having significant changes in fluid density.While all flows are compressible, flows are usually treated as being incompressible when the Mach number (the ratio of the speed of the flow to the speed of sound) is less than 0.3 (since the density change due to velocity is about 5% in that case).

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