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arbitrary point to the sonic point is different for the Fanno and Rayleigh flow models.

Combustion processes.

Regenerator, Heat exchangers. Inter

coolers. The following

are the assumptions that are made for analyzing the such

flow problem. One dimensional steady

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flow. Flow takes place in constant area duct. The frictional effects are negligible compared to heat transfer effects.. The gas is perfect. Body forces are negligible. There is no external shaft ...

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COMPRESSIBLE

FLOW

FUNDAMENTALS In
physics, fluid

dynamics is a sub-
discipline of fluid

mechanics that deals
with fluid flowthe

natural science of
fluids (liquids and

gases) in motion.

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Shock Wave ...

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What is the basic
difference between
compressible and
incompressible fluid
flow? Compressible
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Fluid velocities are appreciable compared with the velocity of sound 2. Density is not constant 3. Compressibility factor is greater than one. 1. Fluid velocities are small compared with the velocity ...

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is discharged from a reservoir at $P_o = 6.91$ bar and $T_o = 325^\circ\text{C}$ through a nozzle to an exit pressure of 0.98 bar. If the flow rate is 3600 Kg/hr, determine throat area, pressure and velocity at the throat, exit area, exit Mach number and.

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Sketch the Rayleigh
line on the T-s plane
and explain the
significance of it.

BTL-3 Applying 5. In
Rayleigh flow what is
the Mach number at

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which the total enthalpy is maximum? BTL-1 Remembering 6. List some flow properties. BTL-1 Remembering 7. Label the limiting Mach number in isothermal..

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