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works ? Electric

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Difference
between Static;
Dynamic and
Stagnation

Pressure
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Reaction Turbine
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✓ *Calculating*
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Ratio Young's
modulus or
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arbitrary point

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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

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are made for
analyzing the
such flow
problem. One
dimensional
steady flow.
Flow takes place
in constant area
duct. The
frictional
effects are
negligible
compared to heat
transfer

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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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1. What is the
basic difference
between

compressible and
incompressible

fluid flow?

Compressible

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Incompressible

1. Fluid velocities are appreciable compared with the velocity of sound
2. Density is not constant

3. Problems

Compressibility factor is greater than one.
1. Fluid velocities are

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small compared
with the
velocity ...

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Air is

discharged from
a reservoir at
 $P_0 = 6.91$ bar

and $T_0 = 325^\circ\text{C}$

through a nozzle

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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

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number at 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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The Students To

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On December 4-5,
1969, the ONR
Chicago Branch
was host to a
gathering of 20
specialists from
government,
industry, and
universities to
participate in a
Workshop to
discuss the

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