Ch 3 : Properties Of Gases

① Relation between C_p and C_v

② work done during the Isothermal process

③ law Of Adiabatic Process [PV^γ = constant]

④ Work Done during the Adiabatic process.

⑤ Work done during the polytropic process.

⑥ Heat transfer during the polytropic process.

⑦ practice sum

Ch 4 : Properties Of Steam

① Steam formation

② Bucket or Barrel calorimeter
Throttling calorimeter
separating calorimeter
combined separating and throttling calorimeter

③ practice sum

Ch 8 : Pumps

① Operating Operation of single acting reciprocating pump.

② Operation of double acting reciprocating pump

(3) Operation of plunger pump

(4) Operation of bucket pump

(5) Suction pipe with foot valve and a strainer.
diagram : centrifugal pump

(6) Vane Pump

Ch: 9

(1) Operation of a compressor

(2) centrifugal compressor

(3) comparison between reciprocating and rotodynamic compres

Ch: 11

(1) Oldham's coupling

(2) Universal coupling or Hooke's joint

(3) centrifugal clutch

(4) Internal expanding shoe brake

Ch: 12

(1) Stepped or cone pulley drive

(2) Velocity ratio of belt drives

(3) Slip and creep in belt drives

(4) Bevel gears

(5) Comparison of belt drive, Chain drive and Gear Drive.

(6) Fast or loose pulley drive