

Thermal Engineering II

UNIT 5

UNIT – IV : CONVENTIONAL SOURCES OF ENERGY AND NUCLEAR POWER PLANT

Air Compressors-uses of compressed air – classifications of Air compressor – reciprocating compressor - single stage reciprocating compressor – compression processes – power required to drive the compressor (Neglecting clearance Volume) – clearance volume and its effects – volumetric efficiency –power required to drive the compressor with clearance volume – problems – multi stage compression – merits and demerits - work input – ratio of cylinder diameters for minimum work input. Rotary compressors – Roots blower - vane blowers – centrifugal and axial flow air compressors.

Gas turbines – uses - classifications – merits and demerits of gas turbines -constant pressure combustion gas turbine – gas turbine with – intercooler –reheater - regenerator -effects – closed cycle gas turbines - merits and demerits of open and closed cycle gas turbines

Jet propulsion -turbojet engines– merits and demerits – turbo propeller engines –

Thermal Engineering 2 Notes

Mark Steyvers



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