

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

Lingjun Ying



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Refrigerating Engineering ,1921 Vols 1 17 include Proceedings of the 10th 24th 1914 28 annual meeting of the society
Revised Steam and Gas Engineering Laboratory Notes W. Black,1916 **Thermal Engineering** ,1995 *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents,1979 **Encyclopedia of Renewable and Sustainable Materials** ,2020-01-09 Encyclopedia of Renewable and Sustainable Materials Five Volume Set provides a comprehensive overview covering research and development on all aspects of renewable recyclable and sustainable materials The use of renewable and sustainable materials in building construction the automotive sector energy textiles and others can create markets for agricultural products and additional revenue streams for farmers as well as significantly reduce carbon dioxide CO2 emissions manufacturing energy requirements manufacturing costs and waste This book provides researchers students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development selection and use of construction and manufacturing materials Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing use application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials *Power Notes* ,1919 *Applied Mechanics Reviews* ,1971 **Compact Heat Exchangers for Energy Transfer Intensification** Jiri Jaromir Klemes,Olga Arsenyeva,Petro Kapustenko,Leonid Tovazhnyanskyy,2015-12-16 Compact Heat Exchangers for Energy Transfer Intensification Low Grade Heat and Fouling Mitigation provides theoretical and experimental background on heat transfer intensification in modern heat exchangers Emphasizing applications in complex heat recovery systems for the process industries this book Covers various issues related to low grade heat *Power Notes for Steam, Mechanical and Consulting Engineers* ,1926 **Verbal Notes and Sketches on Marine Diesel Oil Engines** John William Major Sothorn,1925 Engineering Index Annual ,1930 **Industrial Engineering and the Engineering Digest** ,1911 **Industrial Engineering** ,1911 **Journal of the American Society of Mechanical Engineers** American Society of Mechanical Engineers,1917 **Engineering and Mining Journal** ,1906 **Engineering News-record** ,1898 **Nature** Sir Norman Lockyer,1920 Subject Index to Periodicals ,1924 **The Subject Index to Periodicals** ,1928 Small and Medium Power Reactors ,1961

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