

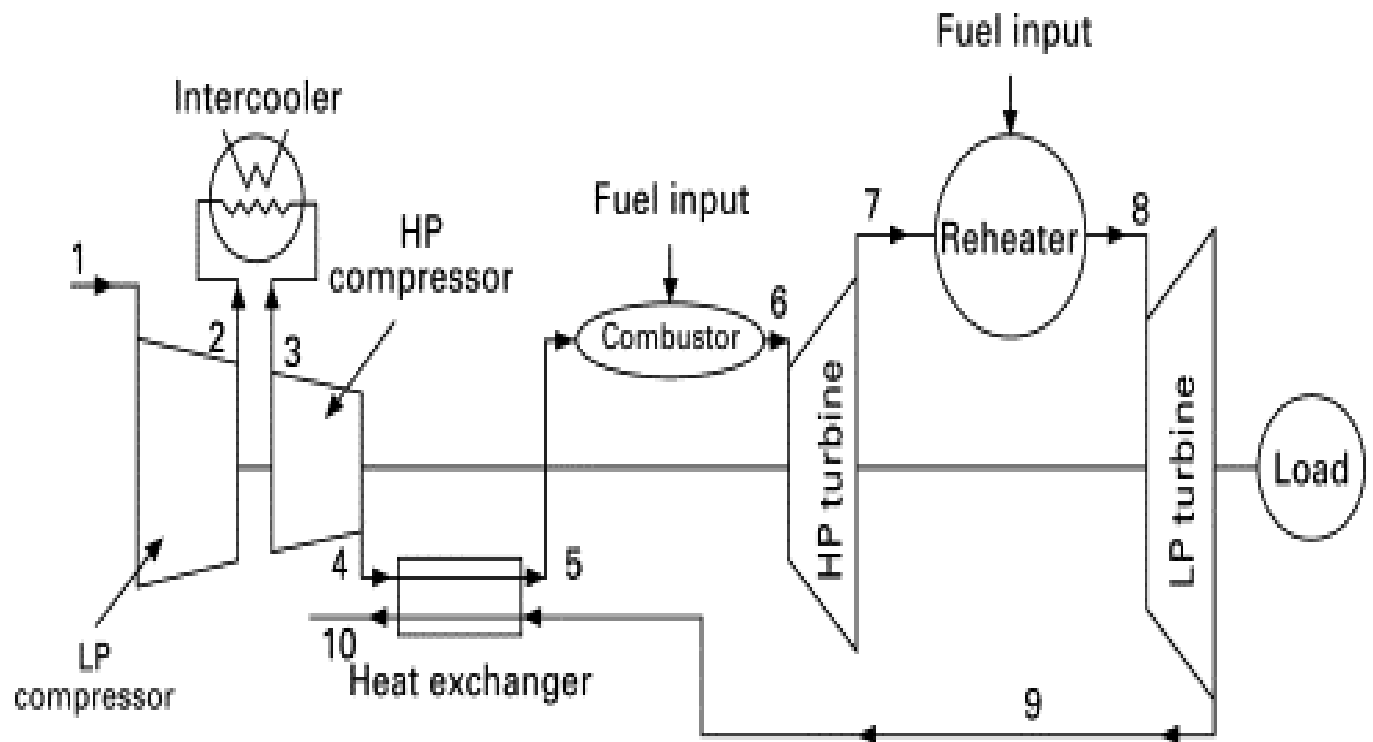


SNS College of Technology

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19ASE304/ Heat Transfer

Unit -5- Heat transfer problems in gas turbines



1-2 Isentropic LP compression

2-3 Intercooling

3-4 Isentropic HP compression

4-5 Constant pressure heat addition via heat exchanger

5-6 Constant pressure heat addition via external heat source

6-7 Isentropic HP turbine expansion

7-8 Reheat (heat addition - external heat source)

8-9 Isentropic LP turbine expansion

9-10 Constant pressure heat transfer for heating process 4-5



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