Applied thermodynamics-I						
\\Engineering\BASIC\Applied Physics	BOOK FO	DLLOWED IS	i			
it may contain info related to this subject	APPLIED THERMODYNAMICS FOR ENGINEERING TECHNOLO			CHNOLOG	.OGISTS	
	5TH EDIT	ΓΙΟΝ				
https://www.georgiancollege.ca/course-outlines/MENG/1005/Fall/2012						
COURSE OUTLINE CONSIST OF THERMODYNAMICS-I						
1. The systems page no.2						
2. Control volume and surface page no.19						
3.working substance page no.9 to 47						
4. Heat page no. 2,568,688-93,5-6,561-651 and work page no. 4-6,128,11						
5.state page no.9 and properties page no.9						
6.Thermodynamics process page no.1,15-23,2,88-121 and cycle page no.13						
7.First Law of thermodynamics page no.15-23						
8.Ideal gas laws page no.125-7,128-3( Ideal cycle) Carnot						
9. Equations of State, of perfect gas, 39-40						
10.Thermodynamic temperature scale page no.8,127-8						
11.Concept of open page no.132-3 and closed cycles page no.13,130-1						

Phase digram page no.not present in	the refere	nce book
use of stream tables		

	Thermodynamics processes relationships	
	1	constant volume (combustion) page no.208-10,221,223-6
	2	constant pressure(process) page no.130-3,52-4
	3	constant temperature(process) page no.55-9
	4	constant enthalpy and general law processes page no.20
	5	steady state and steady flow process page no.72-3
	6	uniform state and uniform flow processes (not present)
	7	steady flow energy equation and steady flow devices page no.(non-flow/17-19)(steady flow/19-23)

Second Law of thermodynamics
Definitions
applications
reversible and irreversible processes
carnot cycle and concept of entropy and its application to flow and non-flow processes
enthalpy-entropy diagrams of working fluids
thermodynamics cycles
Efficiencies, and their applications
Idealized P-V and T-S diagrams of cycles
Rankine cycle and its application
for books search hec course outline for mechanical engineering