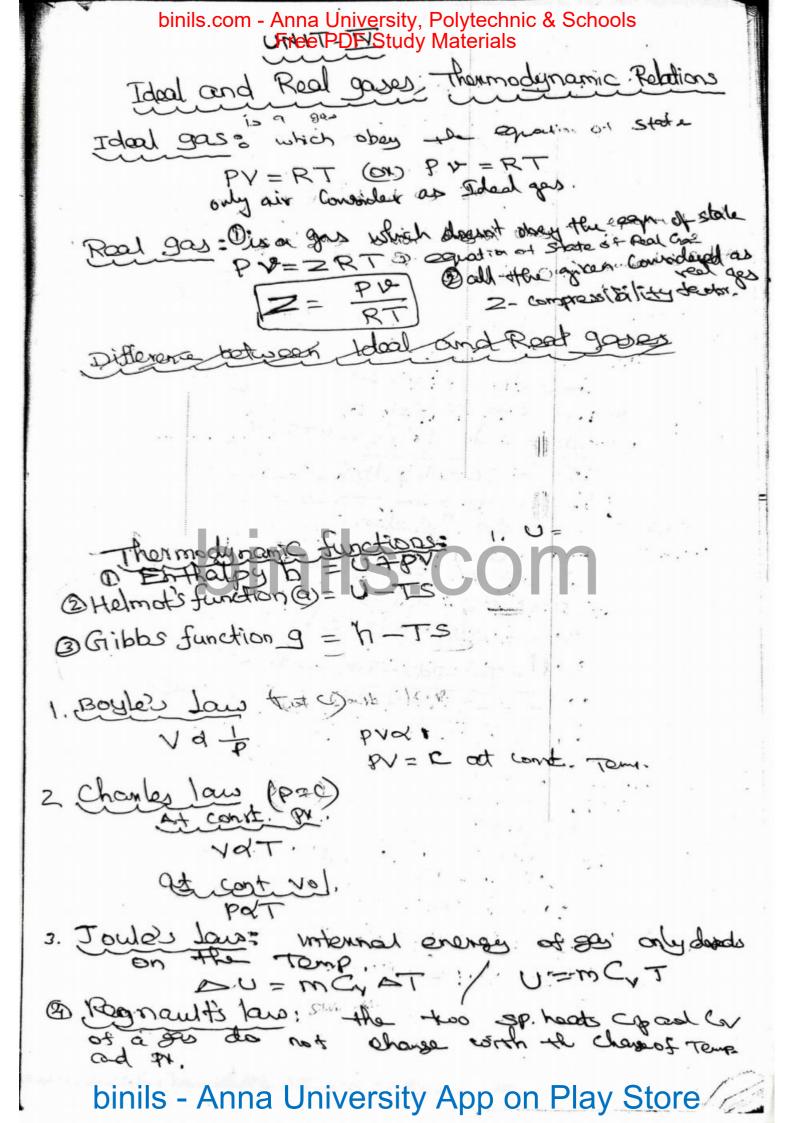
IDEAL AMD REAL GASES....

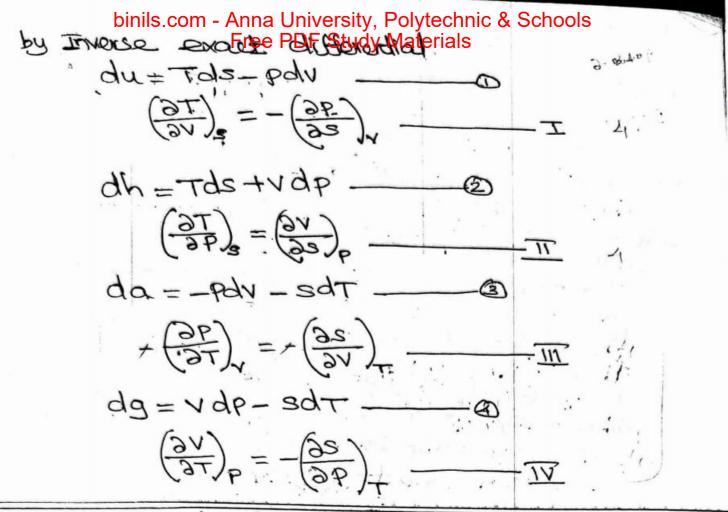
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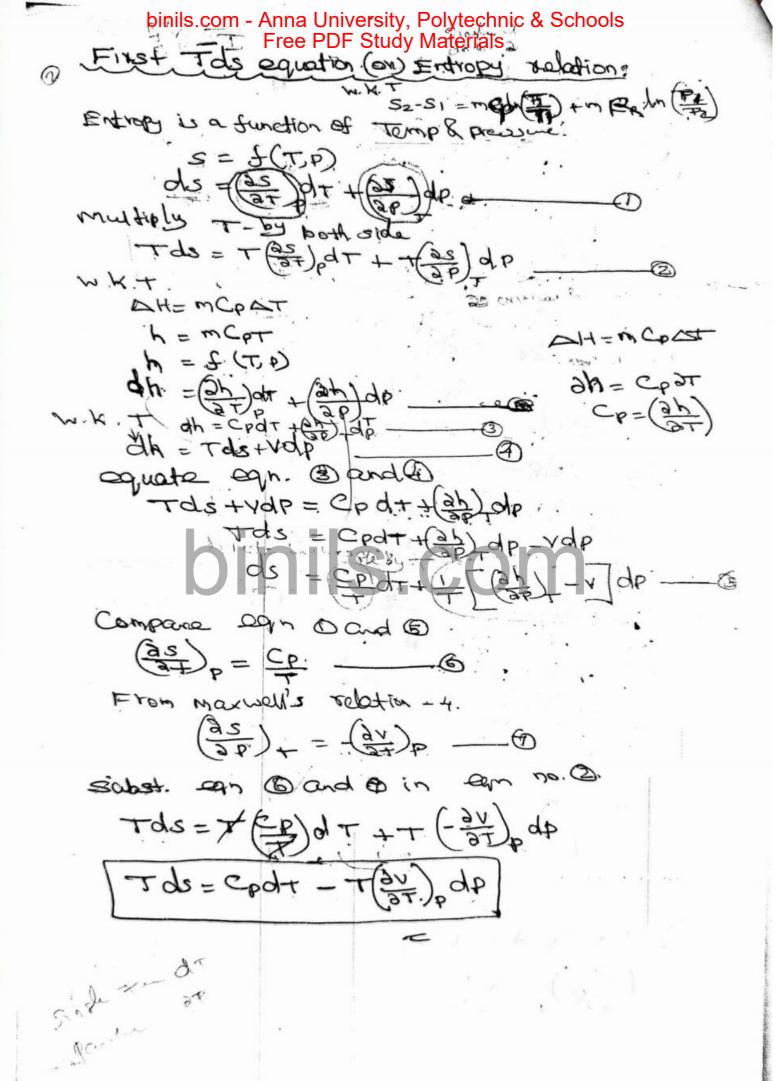


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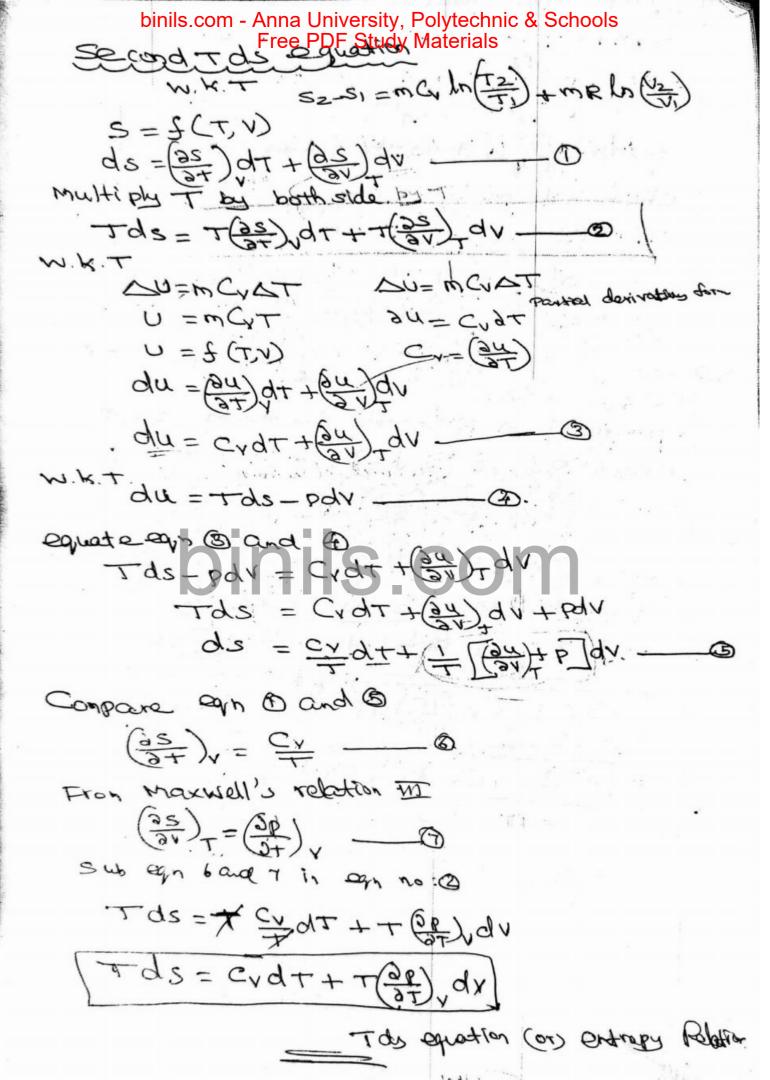


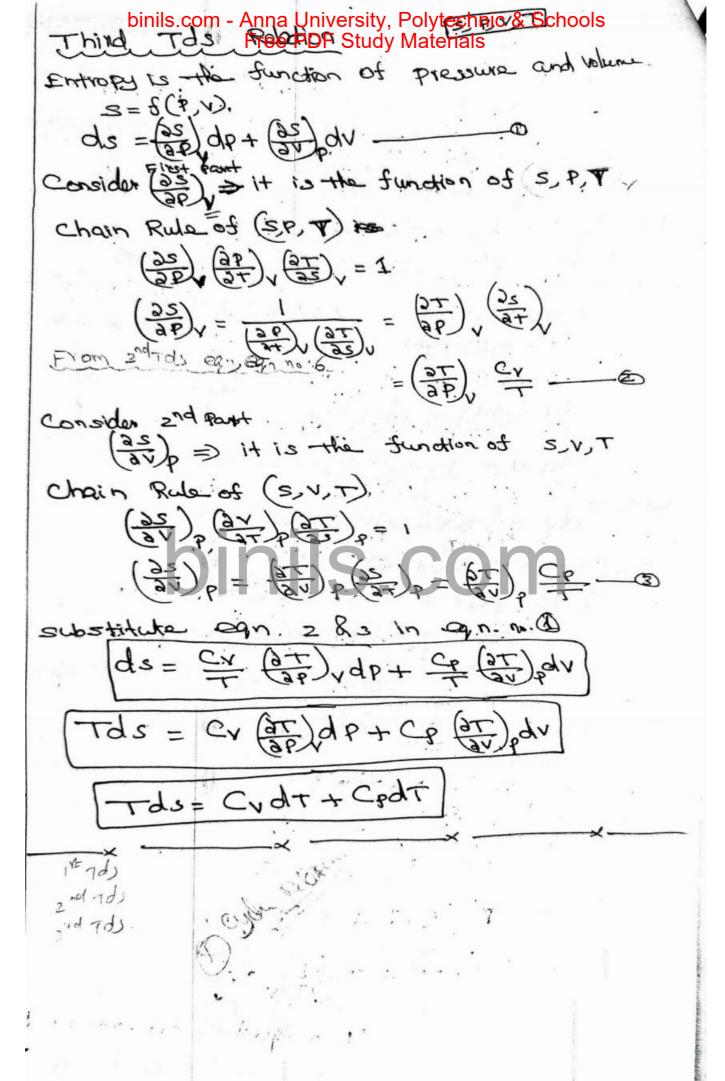
$$du = 7 ds - P dv - Q$$

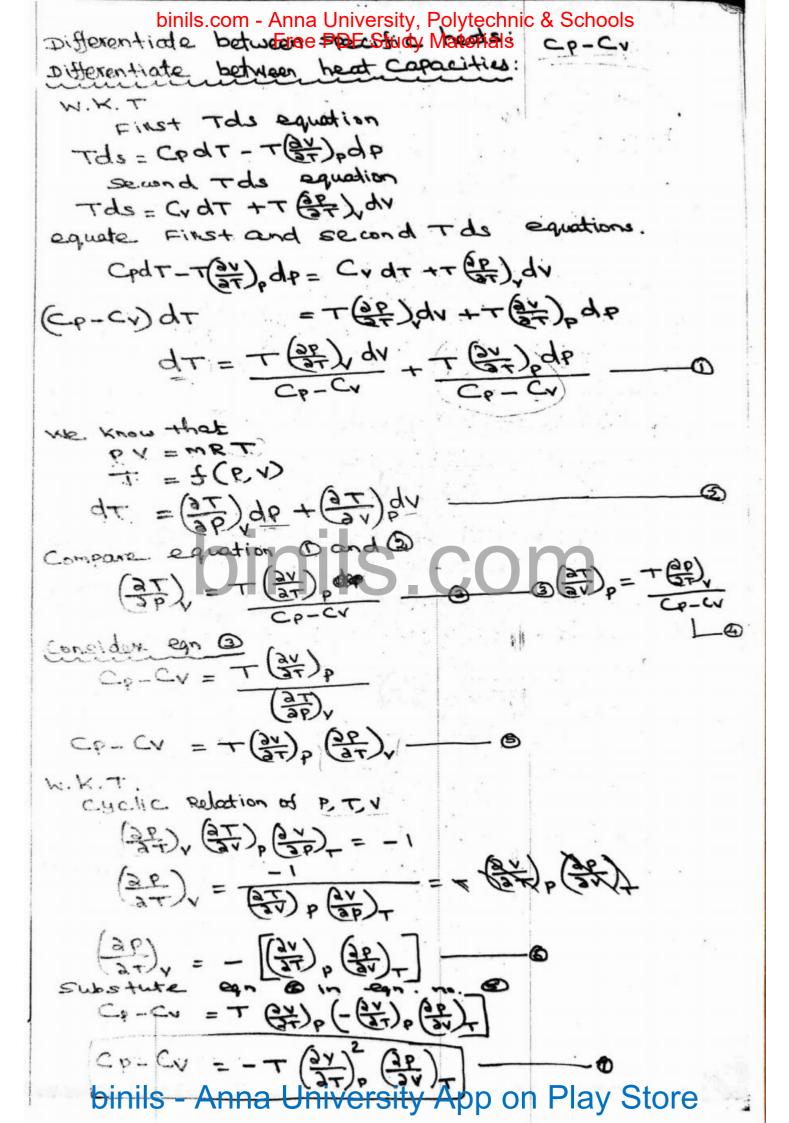
$$\left(\frac{\partial T}{\partial v}\right)_{s} = -\left(\frac{\partial P}{\partial s}\right)_{v}$$

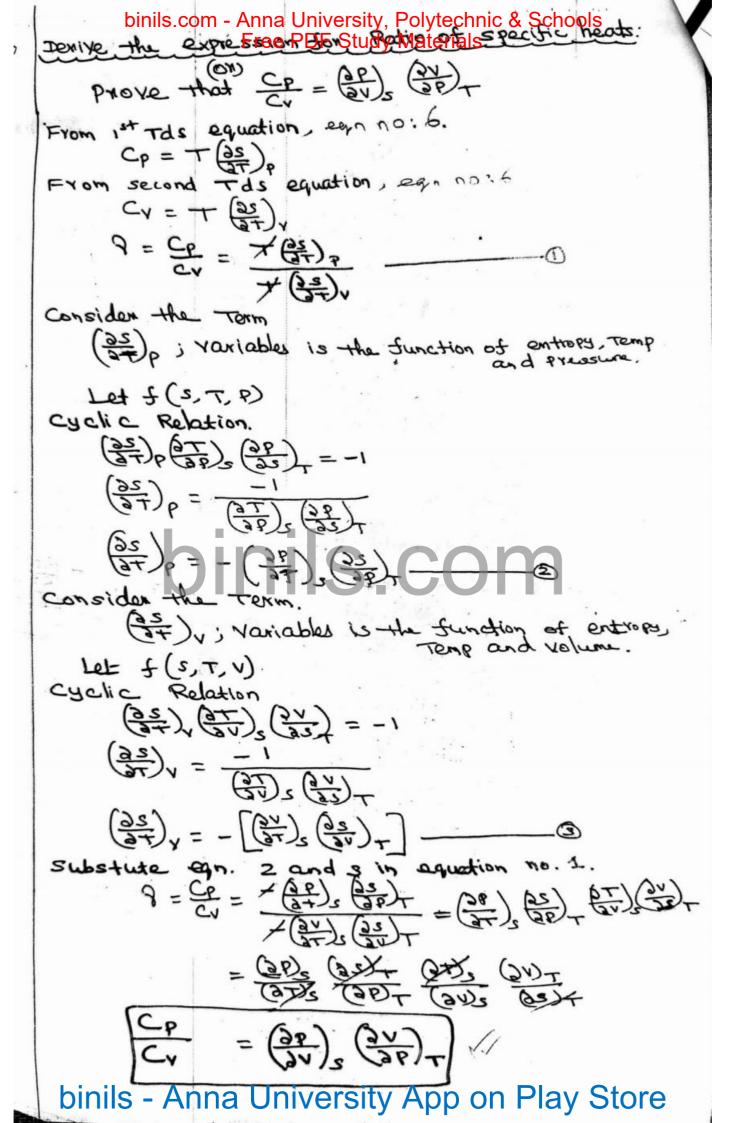


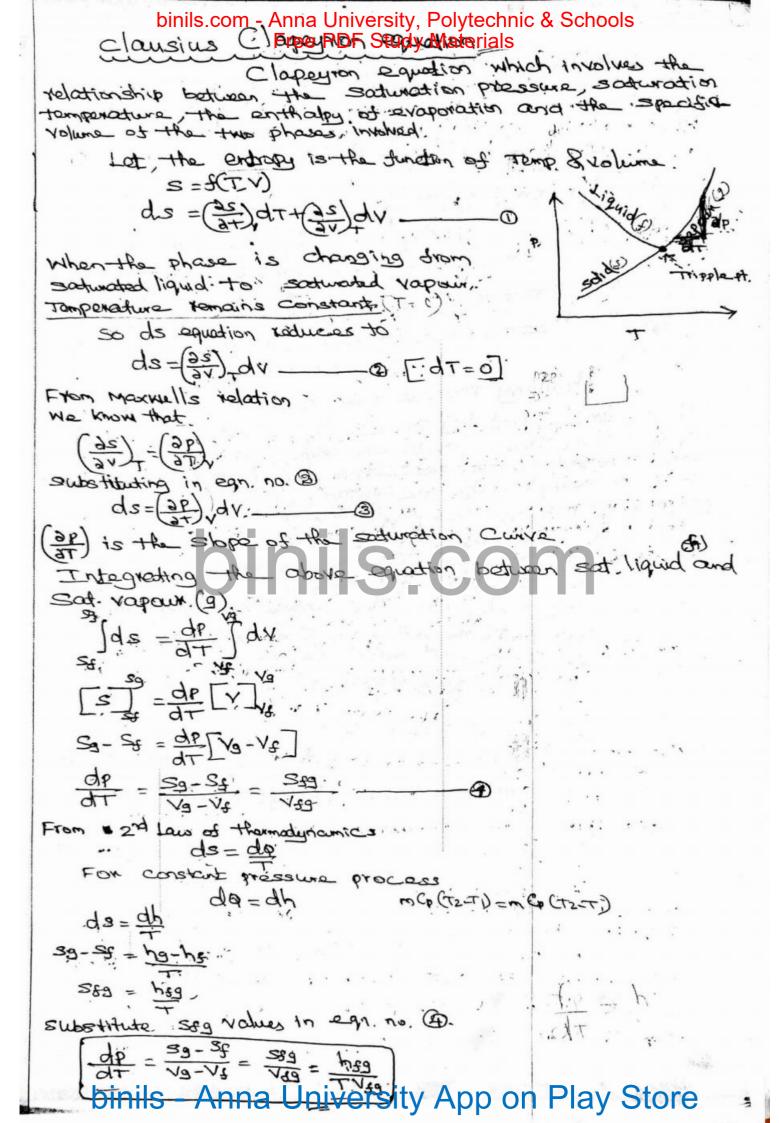
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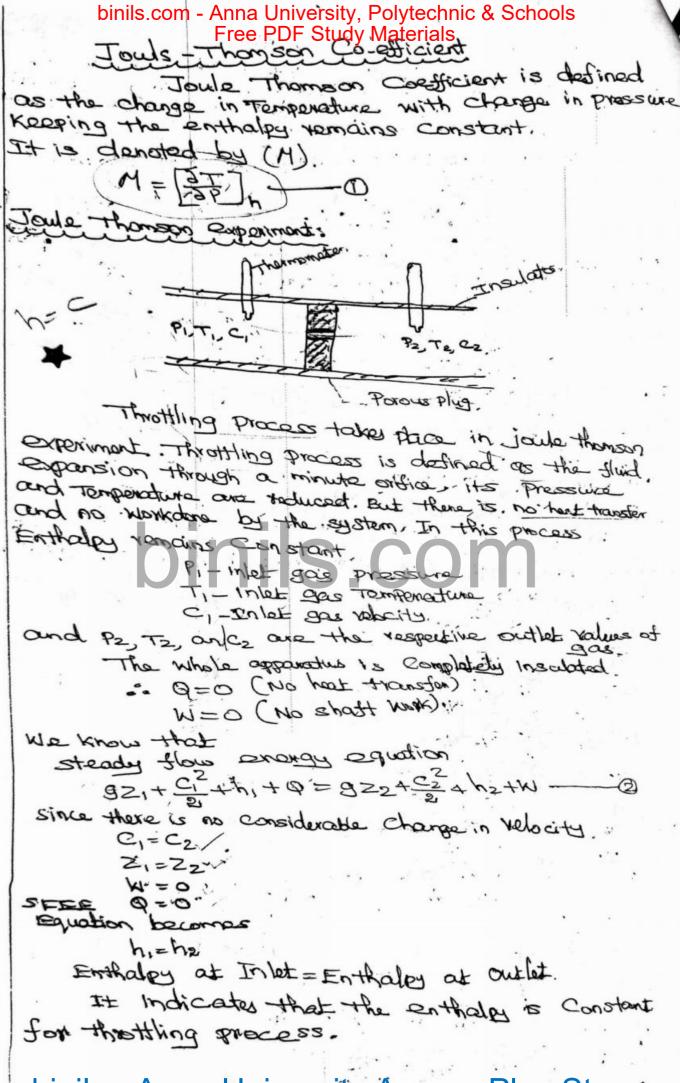


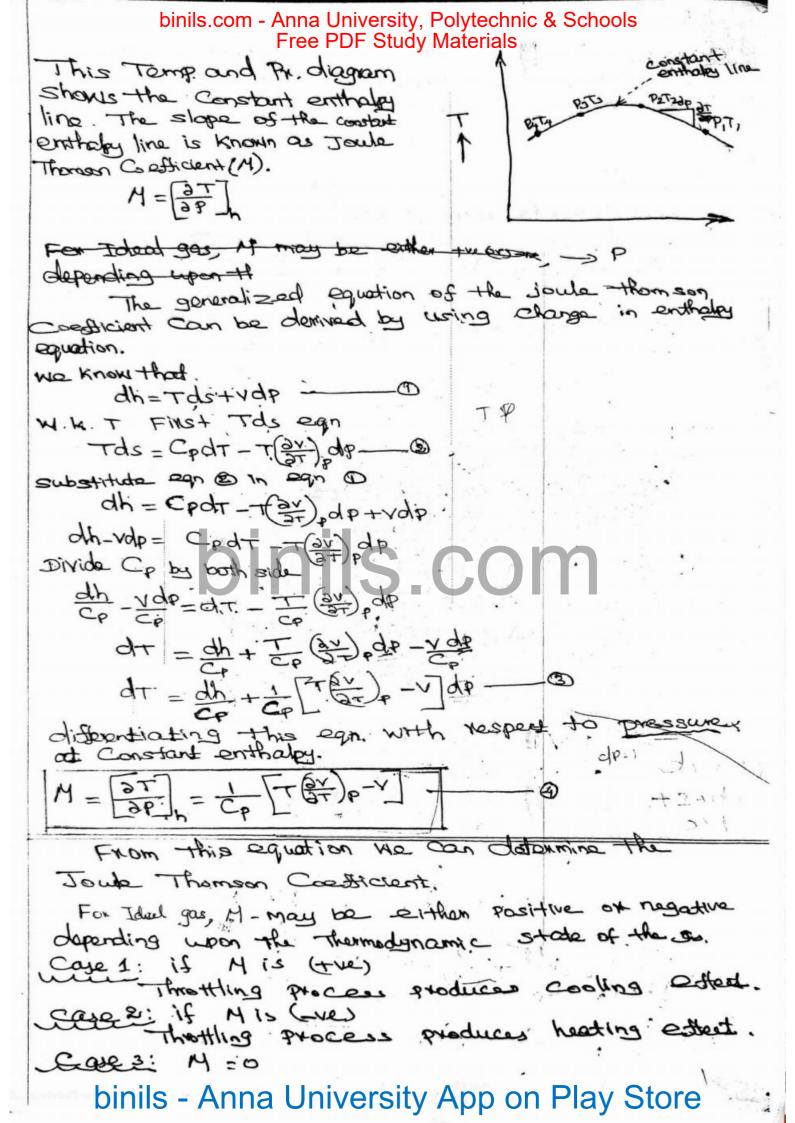


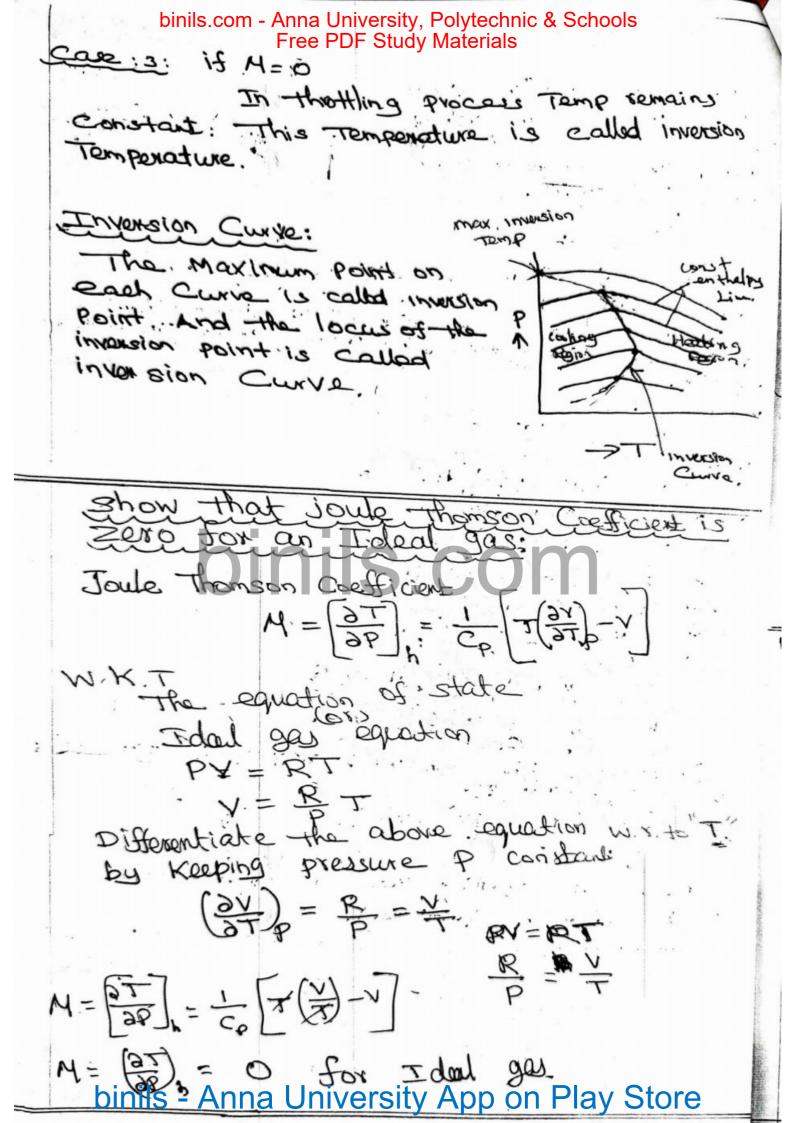












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2. One K9 of Free PDE Study Materials 1000 500 to 1500. If R = 280 TK9K and 8 = 1.32 for the gas determine. 2) DU 2) DH G. D: T = 50+273 = 323 K TR=150+273 = 483K. R = 280-1/KBK = 0,28 KJ/KGK 2 = 1.32 CP-CV= R= 0.28 8 = CP = 1-38 C9=1.32Cv CV[1.38-1] = 0.28 0.33 = 0.832 KI/Kak 6 CP = 1-155 KJ/KgK. 2) DU = mc(V(T2-T)) = 1x0.875(423-323) DU= 87. 5KJ 3) AH = m Cp (Tr-TD = 1x1.155 (422-323) AH= 115 KJ