

9. Partition Function for Two Systems	85
10. Elasticity of Polymers	86
11. One-Dimensional Gas	86

Units: Thermodynamic results can easily be translated from fundamental units to conventional units. The only quantity that will cause difficulty is the heat capacity, defined below in (17a) as  $C(\text{fund.}) \equiv \tau(\partial\sigma/\partial\tau)$  in fundamental units and as  $C(\text{conv.}) = T(\partial S/\partial T)$  in conventional units. These two quantities are not equal, for  $C(\text{conv.}) = k_B C(\text{fund.})$ .