

## Introduction To Thermodynamics Gaskell Solution Manual

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~~Work is found thethe first law as  $w = q - DU$ ; thus  $q = DH$ ;  $w = D HPVL$ ; 4. Isothermal Process Because U is a function only of T for an ideal gas,  $DU = DH = 0$  for an isothermal process. These results also follow from the general results by using  $DT = D(PV) = 0$  for an isothermal process.~~

### Introduction to the Thermodynamics of Materials

SOLUTIONS MANUAL FOR INTRODUCTION TO THE THERMODYNAMICS OF MATERIALS 6TH EDITION GASKELL Problem 1.1\* The plot of  $V = V(P, T)$  for a gas is shown in Fig. 1.1. Determine. the expressions of the two second derivatives of the volume of this plot. (note: the principle curvatures of the surface are proportional to these second derivatives).

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The isothermal expansion is conducted at 300 K. 3.4 ?  $H = 42750$  J, ?  $S = 59.7$  J/K 3.5 The final temperature is 323.32 K, which is greater than 323 K because the heat capacity increases with increasing temperature.

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