

SOLUTION

$$w = - \int_{V_1}^{V_2} P dV \quad P = \frac{RT}{V-b} - \frac{a}{V^2}$$

$$w = - \int_{V_1}^{V_2} \frac{RT}{v-b} dV \quad \int_{V_1}^{V_2} \frac{a}{V^2} dV$$

$$= - RT \ln \frac{V_2-b}{V_1-b} + a \left(\frac{1}{V_1} - \frac{1}{V_2} \right)$$

✓1.9 Are the following expressions exact differentials?

(a) $xy^2 dx - x^2 y dy$

(b) $\frac{dx}{y} - \frac{x}{y^2} dy$

SOLUTION

(a) Taking the cross derivatives

$$\frac{\partial xy^2}{\partial y} = 2xy$$

$$\frac{\partial (-x^2 y)}{\partial x} = -2xy$$

Since the cross derivatives are unequal, the expression is not an exact differential.

(b) $\frac{\partial (1/y)}{\partial y} = -\frac{1}{y^2}$

$$\frac{\partial (-x/y^2)}{\partial x} = -\frac{1}{y^2}$$

Since the cross derivatives are equal, the expression is an exact differential.

1.10 A mole of liquid water is vaporized at 100 °C and 1.013 bar. The heat of vaporization is 40.69 kJ mol⁻¹. What are the values of (a) w_{rev} , (b) q , (c) ΔU , and (d) ΔH ?

SOLUTION

(a) Assuming that water vapor is a perfect gas and that the volume of liquid water

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web miniatur lift 3 lantai ini dapat bekerja dengan baik menggunakan plc sebagai kontrol atau kendali sistemnya dan menambahkan hmi dan push button pada diminiatur lift plc yang digunakan adalah omron tipe cp1e n30dsr a dengan 14 input dan 8 output

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web telah terealisasinya lift cerdas 3 lantai dengan plc omron zen c1ar a v2 sebagai pengendali utamanya 2 penggunaan metode fuzzy logic mampu memberikan kecerdasan buatan pada sistem lift 3 lift mampu membandingkan masingmasing

input yang ada dan menarik keputusan yang akan dijalankan berdasarkan data yang didapat

kontrol lift 3 lantai pdf scribd - Sep 05 2023

web 1 pendahuluan pada perkembangan saat ini lift memiliki sistem kontrol yang canggih dimana semakin kompleks serta rumit saat ini lift sudah dilengkapi sistem kontrol yang menggunakan plc mikrokontroler maupun mikroprosesor sedangkan fpga merupakan media alternative yang dapat digunakan untuk implementasi sistem kontrol lift tersebut