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Thermodynamics - problems and solutions. The first law of thermodynamics. 1. Based on graph P-V below, what is the ratio of the work done by the gas in the process I, to the work done by the gas in the process II? Known : Process 1 : Pressure (P) = 20 N/m<sup>2</sup>. Initial volume (V<sub>1</sub>) = 10 liter = 10 dm<sup>3</sup> = 10 x 10<sup>-3</sup> m<sup>3</sup>

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Solution . Problem 2. The temperature of a body is increased from  $-173\text{ C}$  to  $357\text{ C}$ .

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Force of gravity and gravitational field – problems and solutions. 1. Two objects  $m_1$  and  $m_2$  each with a mass of  $6\text{ kg}$  and  $9\text{ kg}$  separated by a distance of  $5\text{...}$



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Parabolic motion, work and kinetic energy, linear momentum, linear and angular motion – problems and solutions. 1.

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Answer for Problem # 1 Since the

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containers are insulated, no heat transfer occurs between the gas and the external environment, and since the gas expands freely into container B there is no resistance "pushing" against it, which means no work is done on the gas as it expands.

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instructor posts copies of pages from the solution manual.

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And it also means if the internal energy goes up, the temperature goes up. So one thing we can say, just going over here, looking that the change in internal

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energy was negative. This means the energy went down by 90 joules. Overall when all is said and done, this gas lost 90 joules of internal energy.

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N.F.E.E Applications 3. During the working stroke of an engine the heat transferred out of the system was 150 kJ/kg of the working substance. If the work done by the engine is 250 kJ/kg, determine the change in internal energy and state whether it is decrease or increase.

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law of thermodynamics. chapter 04:  
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third law of thermodynamics. chapter  
06: chemical equilibrium

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