

encuentra a 27°C , se comprime hasta un volumen final de 40 cm^3 . El sistema es adiabático y reversible, el aire se comporta como un gas ideal. Halle la temperatura final del aire. ($\gamma = 1,5$)

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- A) $1\,700^\circ\text{C}$ B) $1\,077^\circ\text{C}$ C) $1\,500^\circ\text{C}$
D) $1\,550^\circ\text{C}$ E) $1\,800^\circ\text{C}$

RESOLUCIÓN

$$T_1 V_1^{\gamma-1} = T_2 V_2^{\gamma-1}$$

$$300(810)^{1,5-1} = T_2 (40)^{1,5-1}$$

$$T_2 = 1\,350\text{K}$$

$$T_2 = 1077^\circ\text{C}$$

RPTA.: B

8. Se tiene nitrógeno en un cilindro de acero y se le proporciona 560 J de calor, el nitrógeno se expande isobáricamente. Halle el trabajo realizado por el gas.

- A) 100 J B) 140 J C) 160 J
D) 180 J E) 200 J

RESOLUCIÓN

Gas Diatómico

$$Q = \frac{7}{2} P \Delta V$$

$$560 = \frac{7}{2} P \Delta V \Rightarrow P \Delta V = 160\text{ J}$$

$$W = P \Delta V = 160\text{ J}$$

RPTA.: C

9. En un reactor adiabático, se tiene un gramo de agua, que ocupa un volumen de 1 cm^3 a presión de 1 atm . Cuando esta cantidad de agua hierve, se convierte en $1\,671\text{ cm}^3$ de vapor. Calcule el cambio en la energía interna de este proceso. ($L_v = 2,3 \times 10^6\text{ J/kg}$)

- A) 169 J B) $2\,090\text{ J}$ C) $2\,133\text{ J}$
D) $2\,259\text{ J}$ E) $4\,280\text{ J}$

RESOLUCIÓN

Calor necesario para vaporizar

$$Q_v = mL_v$$

$$Q_v = (1 \times 10^{-3})(2,3 \times 10^6) = 2\,300\text{ J}$$

$$W = P \Delta V$$

$$W = 10^5 (1\,671 - 1) \times 10^{-6} = 167\text{ J}$$

$$Q = W + \Delta U$$

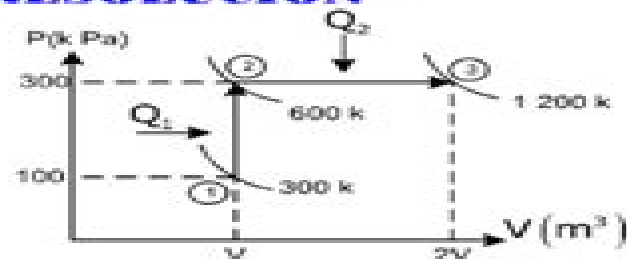
$$\Delta U = 2\,133$$

RPTA.: C

10. En un recipiente cilíndrico se tiene 2 kg de oxígeno a una presión de 100 kPa y a una temperatura de 300 K . El gas es calentado manteniendo su volumen constante hasta que su presión se duplica, luego se expande isobáricamente hasta duplicar su volumen. Calcule el calor absorbido por el gas, isobáricamente duplicando su volumen. ($C_v = 0,7\text{ kJ/kg}\cdot\text{K}$; $C_p = 1\text{ kJ/kg}\cdot\text{K}$)

- A) 420 kJ B) $1\,200\text{ kJ}$
C) $1\,620\text{ kJ}$ D) $1\,840\text{ kJ}$
E) $1\,860\text{ kJ}$

RESOLUCIÓN



$$\textcircled{2} \rightarrow \textcircled{3} \quad \frac{V_2}{T_2} = \frac{V_3}{T_3}$$

$$\frac{V}{600} = \frac{2V}{T_3} \Rightarrow 1\,200\text{ K}$$

$$\textcircled{1} \rightarrow \textcircled{2} \quad \frac{P_1}{T_1} = \frac{P_2}{T_2}$$

Termodinamica Problemas Resueltos

**MARIA DEL BARRIO CASADO,EDUARDO
BRAVO GUIL,FRANCISCO JAVIER LANA
PONS,DAVID ORENCIO LOPEZ
PEREZ,JOSEP SALUD PUIG,JOSE LUIS
TAMARIT MUR**

Termodinamica Problemas Resueltos:

Problemas resueltos de termodinámica BARRIO CASADO, MARIA DEL, BRAVO GUIL, EDUARDO, LANA PONS, FRANCISCO JAVIER, LOPEZ PEREZ, DAVID ORENCIO, SALUD PUIG, JOSEP, TAMARIT MUR, JOSE LUIS, 2005-01-01 Trata de forma practica los aspectos fundamentales de la Termodinamica del Equilibrio al nivel correspondiente a un primer o segundo año universitario El libro se organiza en dos partes Introduccion teorico practica y Problemas multitematicos La obra incluye en total mas de 100 cuestiones y problemas completamente resueltos cuyas explicaciones se complementan con mas de 100 figuras ilustrativas *Fundamentos de termodinámica técnica* Michael J. Moran, Howard N. Shapiro, 2004 Este libro ha evolucionado a lo largo de muchos años de enseñanza de la asignatura tanto para no graduados como postgraduados Explicaciones claras y completas junto a numerosos ejemplos bien desarrollados hacen el texto agradable y casi ideal para el *Termodinámica básica. Ejercicios* María del Barrio Casado, 2006 Este libro pretende ser una introducción a la termodinámica básica del equilibrio y se dirige especialmente a los alumnos de primer ciclo de ciencias y enseñanzas técnicas universitarias La obra consta de un total de diez capítulos cada uno de los cuales se compone de tres partes En la primera se expone un resumen de los conceptos teóricos más relevantes en la segunda se resuelven minuciosamente un conjunto significativo de problemas con la finalidad de facilitar la consolidación de los conceptos teóricos y en la tercera se proponen una serie de problemas para que el propio alumno evalúe su grado de asimilación de los conceptos teóricos para lo cual se le proporciona la solución numérica como guía Muchos de los problemas propuestos y resueltos tienen un ámbito multitemático lo cual les confiere un mayor carácter pedagógico Con ello se pretende que el alumno adquiera una visión exhaustiva de la termodinámica básica la cual sin duda le servirá para poder acometer de forma más efectiva el tratamiento de la termodinámica más compleja **Termodinámica** Miguel Luis González Petit-Jean, Universidad Veracruzana, 2002 **Termodinámica** Cristóbal Fernández Pineda, Santiago Velasco Maíllo, 2009-09-17 No es un libro de texto al uso que responda a un programa de un determinado plan de estudios más bien con sus contenidos se pueden confeccionar e impartir eligiéndolos adecuadamente programas distintos y variados desde un nivel introductorio a un nivel más avanzado La estructura de los capítulos sigue una metodología que comprende unos contenidos principales y unos complementos En el texto principal se exponen y desarrollan las que consideramos partes básicas del capítulo mientras que en los complementos aparecen aquellas partes no de menor importancia que completan o muestran versiones alternativas al texto principal *Problemas resueltos de termodinámica* Javier Cañada Ribera, José Luís Gómez Ribelles, Ricardo Díaz Calleja, Ma Jesús Sanchís Sánchez, 1999

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Técnica Los capítulos segundo a quinto presentan el Primer y el Segundo Principio de la Termodinámica tanto en sistemas cerrados como en sistemas abiertos y cíclicos en ellos se presta una atención especial a los sistemas abiertos volúmenes de control pues son los más usuales en las aplicaciones de Ingeniería Por último se abordan las aplicaciones técnicas industriales el sexto capítulo contiene una introducción a los sistemas energéticos y los capítulos séptimo y octavo estudian las mezclas de gases no reactivas Psicrometría y reactivas combustión Asimismo el libro presenta un enfoque esencialmente práctico aunque ofrece pequeñas introducciones técnicas pues incluye numerosos problemas y ejercicios completamente resueltos algo difícil de encontrar en otros textos de Termodinámica Ello permite a los alumnos capacitarse en la resolución de ejercicios aprendiendo a la vez los conceptos técnicos En definitiva este texto es una excelente herramienta que permite a los alumnos adquirir las competencias necesarias para abordar con garantías estudios más profundos en los ámbitos de la energía y los motores y máquinas térmicas

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