

dengan $\gamma = \frac{C_p}{C_v}$ = konstanta Laplace, dan $\frac{C_p}{C_v} > 1$. C_p adalah kapasitas kalor gas pada tekanan tetap dan C_v adalah kalor gas pada volume tetap. Perhatikan diagram $p - V$ pada Gambar 9.7. Dari kurva hubungan $p - V$ tersebut, Anda dapat mengetahui bahwa:

- 1) Kurva proses adiabatik lebih curam daripada kurva proses isotermal.
- 2) Sama, tekanan, merupakan volume pada proses adiabatik tidak tetap.

Oleh karena sistem tidak melepaskan atau menerima kalor, pada kalor sistem proses adiabatik Q sama dengan nol. Dengan demikian, usaha yang dilakukan oleh sistem hanya mengulangi energi dalam sistem tersebut. Biasanya usaha pada proses adiabatik tersebut dinyatakan dengan persamaan berikut.

$$W = \frac{3}{2} nR(T_1 - T_2) = \frac{5}{2} (p_1 V_1 - p_2 V_2) \quad (9-8)$$

Contoh 9.6

Sebuah mesin memiliki rasio pemampatan $12 : 1$ yang berarti bahwa setelah pemampatan, volume gas menjadi $\frac{1}{12}$ volume awalnya. Anggap bahan bakar bercampur udara pada suhu 33°C , tekanan 1 atm, dan $\gamma = 1,4$. Jika proses pemampatan terjadi secara adiabatik, hitunglah tekanan pada keadaan akhir dan suhu campuran.

Jawab:

Diketahui: $V_2 = \frac{1}{12} V_1$, $T_1 = 33 + 273 = 306 \text{ K}$, dan $p_1 = 1 \text{ atm}$.

Untuk menentukan tekanan akhir p_2 , gunakan rumus:

$$p_1 V_1^\gamma = p_2 V_2^\gamma \rightarrow p_2 = p_1 \left(\frac{V_1}{V_2} \right)^\gamma \rightarrow p_2 = 1 \left(\frac{V_1}{\frac{1}{12} V_1} \right)^{1,4} = (12)^{1,4} = 32,4 \text{ atm.}$$

Suhu campuran akan akhir akhir T_2 diperoleh sebagai berikut:

$$T_1 V_1^{\gamma-1} = T_2 V_2^{\gamma-1} \rightarrow T_2 = T_1 \left(\frac{V_1}{V_2} \right)^{\gamma-1}$$

$$T_2 = 306 \text{ K} (12)^{1,4-1} = 306 \text{ K} (12)^{0,4} = 832 \text{ K} = 559^\circ\text{C}$$

Contoh 9.7

Udara sebesar $2 \times 10^3 \text{ J}$ diberikan secara adiabatik untuk memampatkan $0,5 \text{ mol}$ gas ideal monatomik, sehingga suhu mutlaknya menjadi 2 kali semula. Jika konstanta umum gas $R = 8,31 \text{ J/mol K}$, tentukanlah suhu awal gas.

Jawab:

Diketahui: $W = 2 \times 10^3 \text{ J}$, $T_2 = 2T_1$ dan $n = 0,5 \text{ mol}$.

$$W = \frac{3}{2} nR(T_2 - T_1) = \frac{3}{2} nR(2T_1 - T_1)$$

$$= \frac{3}{2} nR T_1$$

$$T_1 = \frac{2W}{3nR} = \frac{2(2 \times 10^3 \text{ joule})}{3(0,5 \text{ mol})(8,31 \text{ J/molK})} = 321 \text{ K}$$

Jadi, suhu awal gas adalah 321 K.



Gambar 9.7

Pada proses adiabatik, kurva $p - V$ lebih curam dibanding kurva dengan kurva $p - V$ pada proses isothermal.

Lompatan Kuantum



1 ... 2 atom thermal energy, absorbed when light (photons) having energy $h\nu$. When an electron jumps from one level to another, it emits light of a certain frequency. The frequency of light is proportional to the energy difference between the two levels. This is a quantized process.

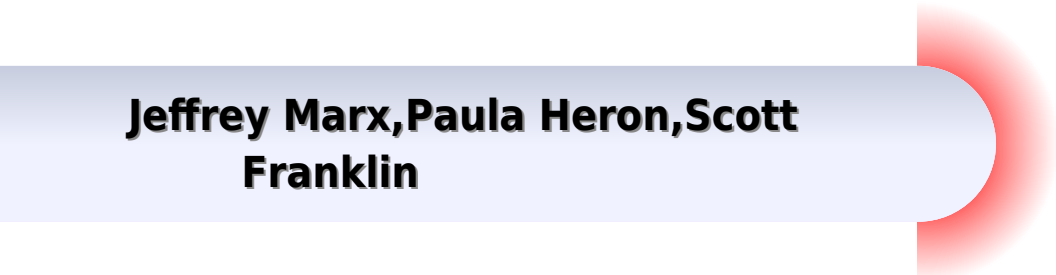
Quantum Leap

The atom is in a state of thermal energy. When it absorbs light (photons) having energy $h\nu$, the electron jumps to a higher energy level. When it jumps back to a lower energy level, it emits light of a certain frequency. This is a quantized process.

Source: Quantum Leap, 1999

Conceptual Physics Fundamentals Answers

**Jeffrey Marx, Paula Heron, Scott
Franklin**



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Fundamental Physics and Physics Education Research Burra G. Sidharth, Jesús Carnicer Murillo, Marisa Michelini, Carmen Perea, 2020-11-11 This book highlights selected contributions presented at the 15th annual international symposium Frontiers of Fundamental Physics FFP15 with the aim of informing readers about the most important recent advances in fundamental physics and physics education research The FFP series offers a platform for physicists from around the world to present their latest theories and findings The latest symposium was held in Orihuela Spain and covered diverse fields of research including gravitation astronomy and astrophysics physics of complex systems high energy physics and mathematical physics Considerable attention was also paid to physics education research teacher education in physics and the popularization of physics In a knowledge based society research into fundamental physics plays a vital role in both the advancement of human knowledge and the development of new technologies Presenting valuable new peer reviewed contributions submitted from 15 countries this book will appeal to a broad audience of scholars and researchers

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Complex Analysis Shashank Tiwari, 2025-02-20 *Complex Analysis: Advanced Concepts* delves into the intricate world of complex numbers and functions, offering a thorough exploration of their properties and applications. The book begins with a detailed examination of basic concepts, covering arithmetic operations, geometric interpretations, and the fundamental theorem of algebra. It then progresses to advanced topics such as complex functions, differentiation, integration, and series. One of the book's notable strengths lies in its clear and concise explanations, accompanied by numerous examples and exercises to reinforce understanding. Readers are guided through theorems and proofs, gaining insight into the elegance and power of complex analysis. The book also highlights the relevance of complex analysis in various fields, including physics, engineering, and economics. Applications such as potential theory, fluid dynamics, and signal processing are explored, demonstrating the subject's practical significance. Whether used as a textbook for students or a reference for professionals, *Complex Analysis: Advanced Concepts* offers a valuable resource for mastering the intricacies of this essential branch of mathematics. Its comprehensive coverage and accessible style make it an indispensable

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