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I have given all numerical answers to two significant figures, for consistency. Note that I have assumed that all "difficult" definite integrals will be solved by looking them up in a table; most of these are ultimately derived using contour integration, but I certainly don't expect the students to solve them that way.

Chapter 1

1.1 (a) The power emitted by the human body is:

$$P = \sigma A T^4$$

so the total energy radiated in a time t is

$$E = \sigma A T^4 t$$

The surface area A of the human body is between 1 m² and 2 m² (depending on the person in question). Students should at least be able to estimate the order of magnitude of this number correctly. I will solve for the range A = 1 - 2m². The temperature of the human body is:

$$T = 98.6^{\circ} \text{ F} = 310 \text{ K}$$

So the total energy radiated in one hour is:

$$E = (5.67 \times 10^{-8} \text{ J sec}^{-1} \text{ m}^{-2} \text{ K}^{-4})(1 - 2\text{m}^2)(310 \text{ K})^4(3600 \text{ sec}) = 1.9 - 3.8 \times 10^6 \text{J}$$

(b) Wien's law gives:

$$\lambda_{\text{pro-k}} = w/T = (2.90 \times 10^{-3} \text{m K})/310 \text{K} = 9.4 \times 10^{-6} \text{m} = 9.4 \times 10^{8} \text{A}$$

1.2 Wien's law gives $\lambda_{peak} = w/T$ so that

$$T = w/\lambda_{m+k} = (2.90 \times 10^{-3} \text{m K})/3.5 \times 10^{-7} \text{m} = 8300 \text{ K}$$

(Note the errata that this is not a red star - an error in the text of the problem! This is corrected in the second printing).

1.3 (a) The total energy density is given by

$$\rho = aT^4 = (7.56 \times 10^{-16} \text{ J m}^{-3} \text{ K}^{-4})(2.7 \text{ K})^4 = 4.0 \times 10^{-14} \text{J m}^{-3}$$

(b) The total energy density ρ between 1 mm and 1.01 mm is

$$\rho = \int_{\nu_1}^{\nu_1} \frac{8\pi h}{c^3} \frac{\nu^3}{e^{\hbar \varphi/kT} - 1} d\nu,$$

where $\nu_1 = c/(1.01 \text{ mm}) = 2.97 \text{ Hz}$ and $\nu_2 = c/(1 \text{ mm}) = 3.00 \text{ Hz}$. This integral cannot be performed analytically, but because the range of integration is so small, it is a good approximation to take it to be given by

$$\rho = \frac{8\pi h}{c^2} \frac{\nu_0^2}{c^{2\alpha}/k^2 - 1} (\nu_2 - \nu_1)_c$$

Quantum Mechanics Scherrer Solution Manual

Ishtiaq Ahmed, Fayyazuddin, Riazuddin

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Solution Manual For Quantum Mechanics (2nd Edition) Ishtiaq Ahmed, Fayyazuddin, Riazuddin, 2014-03-11 This is the solution manual for Riazuddin s and Fayyazuddin s Quantum Mechanics 2nd edition The questions in the original book were selected with a view to illustrate the physical concepts and use of mathematical techniques which show their universality in tackling various problems of different physical origins This solution manual contains the text and complete solution of every problem in the original book This book will be a useful reference for students looking to master the concepts introduced in Quantum Mechanics 2nd edition

Solutions Manual to Quantum Mechanics in a Nutshell Gerald D.

Mahan, 2009-01-01

Solution Manual for Quantum Mechanics, 2014-04-01

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