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Solution: Pathria 3.31: Study, along the lines of Section 3.8, the statistical mechanics of a system of N "Fermi oscillators," which are characterized by only two eigenvalues, namely 0 and ϵ . Chapter 4. Solution: Pathria 4.4: The probability that a system in the grand canonical ensemble has exactly N particles is given by

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(a) Show that, for two large systems in thermal contact, the number $\Omega(E_1)$ of Section 1.2 can be expressed as a Gaussian in the variable E_1 . Determine the root-mean-square deviation of E_1 from the mean value in terms of other quantities pertaining to the problem. (b) Make an explicit evaluation of the root-mean-square deviation of E_1 in the special case when the systems A_1 and A_2 ...

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Statistical mechanics-3rd ed. / R. K. Pathria, Paul D. Beale. p. cm. Includes bibliographical references and index. ISBN 978-0-12-382188-1 (pbk.) 1.

Statistical mechanics. I. Beale, Paul D. II. Title. QC174.8.P38 2011 ... The second edition of Statistical Mechanics was published in 1996. The new material added at

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We give some schematic solutions of exercises from chapters 1 to 10 of "Introduction to Statistical Physics", by Silvio R. A. Salinas, -rst published by Springer, New York, in 2001. We also add a number of corrections and some new exercises. Additional corrections and suggestions are warmly welcomed. Silvio Salinas

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The density matrix in the canonical ensemble is, The operator upon transformation would become,. The operator upon transformation would become as follows.. We have, Thus, the above equation reduces to, The expectation value along z-axis is,. Substitute for, and for.. Thus, the same result of expectation value along z-axis is obtained as that one in section 5.3.

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Statistical Mechanics explores the physical properties of matter based on the dynamic behavior of its microscopic constituents. After a historical introduction, this book presents chapters about thermodynamics, ensemble theory, simple gases theory, Ideal Bose and Fermi systems, statistical mechanics of interacting systems, phase transitions, and computer simulations.

~~Statistical Mechanics—3rd Edition—Elsevier~~

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Additional material and most of the homework problems will be taken from other sources -- for example, Statistical Mechanics by D.A. McQuarrie (Harper and Row, New York, 1976), Thermodynamics by H.B. Callen (Wiley, New York, 1985), and Statistical Mechanics by R.K. Pathria (Butterworth-Heinemann, Oxford, 1996).

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