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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 and A ...

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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

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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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Author(s) : R.K. Pathria, Paul D. Beale Please note that page include two product that are sold separately First product include two solution manuals: one for for 2nd edition (is in Persian language) and another for 3rd edition (1 pdf file) that cover 280 problems from all of 16 chapters. Second product ...

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