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He is coauthor with Raj Pathria of the third and fourth editions of the graduate physics textbook Statistical Mechanics. The Boulder Faculty Assembly has honored him with the Excellence in Teaching and Pedagogy Award, and the Excellence in Service and Leadership Award.

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The density matrix in the canonical ensemble is, The

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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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