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is precisely.  $h N. h^N hN$ . Solution:  
Pathria 2.8: Following the method of  
Appendix C, replacing equation (C.4) by

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the integral.  $\int_0^{\infty} e^{-r} r^2 dr = 2$ .

$\int_0^{\infty} e^{-r} r^2 dr = 2$ ?

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Problems 139  
6. The Theory of Simple Gases 141  
6.1. An ideal gas in a quantum-mechanical microcanonical ensemble 141  
6.2. An ideal gas in other quantum-mechanical ensembles 146  
6.3. Statistics of the occupation numbers 149  
6.4. Kinetic considerations 152  
6.5. Gaseous systems composed of molecules with internal motion 155  
6.6. Chemical ...

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equation (in other words, a solution for  $t$  !  
1). Use this equation to obtain the time evolution  $\langle N_1 \rangle_t$  of the average value of  $N_1$ . Compare this analytical form with the results of your simulations. \*\*\* Note that  $\langle N_1 \rangle_t = X N_1 N_1 P(N_1; t)$ : Using the stochastic equation, it is easy to see that  $\langle N_1 \rangle_{t+\Delta t} = \frac{1}{2} N \langle N_1 \rangle_{t+1}$ ; which leads to the solution  $\langle N_1 \rangle_t = C \frac{1}{2} N t + N_2$ ;



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