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Press), 1995. (This book is full of errors.)

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An Introduction to Thermal Physics,  
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= N (7) Schroeder asks us to prove that for  
a system in thermal and diffusive  
equilibrium with a reservoir,  $F$  tends to

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decrease. I suspect he would use a derivation similar to that leading up to his equation 5.29 for  $F$ , but as I don't trust that method, I'll use the method that deals with the total entropy of the system.

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this chapter.

## Solutions for Chapter 8: An Introduction to Thermal ...

equation (in other words, a solution for  $t$  !

1). Use this equation to obtain the time evolution  $\langle N \rangle(t)$  of the average value of  $N$ . Compare this analytical form with the

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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  $\langle N_1 \rangle_{t+\Delta t} = 1 - 2/N \langle N_1 \rangle_t + 1$ ; which leads to ...

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Andrew Rex is professor of physics at the University of Puget Sound in Tacoma, Washington. He is author of several textbooks and the popular science book, *Commonly Asked Questions in Physics*.

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number of detailed theoretical derivations  
at the end of each chapter Provides a high  
level of detail in derivations of all  
equations and results

The birth of this monograph is partly due  
to the persistent efforts of the General  
Editor, Dr. Klaus Timmerhaus, to

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persuade the authors that they encapsulate their forty or fifty years of struggle with the thermal properties of materials into a book before they either expired or became totally senile. We recognize his wisdom in wanting a monograph which includes the closely linked properties of heat capacity and thermal expansion, to which we have

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added a little 'cement' in the form of elastic moduli. There seems to be a dearth of practitioners in these areas, particularly among physics postgraduate students, sometimes temporarily alleviated when a new generation of exciting materials are found, be they heavy fermion compounds, high temperature superconductors, or

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fullerenes. And yet the needs of the space industry, telecommunications, energy conservation, astronomy, medical imaging, etc. , place demands for more data and understanding of these properties for all classes of materials - metals, polymers, glasses, ceramics, and mixtures thereof. There have been many useful

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books, including Specific Heats at Low Temperatures by E. S. Raja Gopal (1966) in this Plenum Cryogenic Monograph Series, but few if any that covered these related topics in one book in a fashion designed to help the cryogenic engineer and cryophysicist. We hope that the introductory chapter will widen the

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