Elements Of Nonequilibrium Statistical Mechnaics

By V. Balakrishnan

Ane Books Pvt. Ltd., 2014. Softcover. Book Condition: New. This Book deals with the basic principles and techniques of a subject whose importance is growing rapidly in view of the advances being made, both experimentally and theoretically, in the study of nonequilibrium phenomena-in particular, in statistical physics, chemical physics, biological physics, complex systems, and several other areas. The level is accessible to senior undergraduate students and post-graduate students. The presentation is quite self-contained, and the choice of topics enables the student to form a coherent picture of the subject. CONTENTS :- Prologue 1. Introduction 2. The Langevin equation 3. The fluctuation-dissipation relation 4. Autocorrelation of the velocity 5. Markov processes 6. The Fokker-Planck equation 7. The diffusion equation 8. Diffusion in a finite region 9. Brownian motion 10. First-passage time 11. The displacement 12. Phase space Fokker-Planck equation 13. Diffusion in a potential 14. Diffusion in a magnetic field 15. Kubo-Green formulas 16. Dynamic mobility 17. The generalized Langevin equation, Epilogue, Appendixes, Suggested Reading. Printed Pages: 336.

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