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Introductory Statistical Mechanics. Oxford University Press. ISBN 978-0-19-850576-1. CS1 maint: multiple names: authors list ; Van Vliet; Carolyne M. (2008). Equilibrium and Non-equilibrium Statistical Mechanics. World Scientific Publishing Company. p. 982. ISBN 978-981-270-477-1. Peliti, Luca (2011). Statistical Mechanics in a Nutshell ...

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Non-Equilibrium Statistical Mechanics (Dover Books on Physics) [Ilya Prigogine] on Amazon.com. \*FREE\* shipping on qualifying offers. Ilya Prigogine won the 1977 Nobel Prize in Chemistry for his contributions to non-equilibrium thermodynamics. This groundbreaking 1962 monograph

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Sufficiently rigorous for introductory or intermediate graduate courses, this text helps students acquire valuable investigative tools, presenting a comprehensive scope of the techniques and limitations of statistical mechanics. Clear and readable, the treatment follows a logical development from elementary to advanced theories. 82 figures. 15 tables. 1962 edition.

### **Nonequilibrium Statistical Thermodynamics - Dover Publications**

Statistical mechanics can also be used to study systems that are out of equilibrium. An important subbranch known as non-equilibrium statistical mechanics (sometimes called statistical dynamics) deals with the issue of microscopically modelling the speed of irreversible processes that are driven by imbalances. Examples of such processes include ...

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### **Statistical mechanics - Wikipedia**

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### **List of textbooks in thermodynamics and statistical mechanics**

Classic monograph treats the irreversible processes and phenomena of thermodynamics: non-equilibrium thermodynamics. Covers statistical foundations and applications of the field with special chapters on fluctuation theory, theory of stochastic processes, kinetic theory of gases, derivation of the Onsager reciprocal relations, more. 4 black-and-white illustrations.

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This book develops in detail the statistical basis of nonequilibrium thermodynamics, based on the mathematical theory of Brownian motion. Its unifying approach allows widely applicable principles to be extracted from the analysis of particular models. Intended for nonmathematicians working in the areas of nonequilibrium thermodynamics and statistical mechanics, it will also be of interest to ...

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Written by the winner of the 1977 Nobel Prize in Chemistry, this groundbreaking 1962 monograph is an essential work for researchers and graduate students. Topics include the Liouville equation, anharmonic solids, Brownian motion, weakly coupled gases, scattering theory and short-range forces, approach to equilibrium in ionized gases, general kinetic equations, and other topics.

### **Non-Equilibrium Thermodynamics - Dover Books**

This is the definitive treatise on the fundamentals of statistical mechanics. A concise exposition of classical statistical mechanics is followed by a thorough elucidation of quantum statistical mechanics: postulates, theorems, statistical ensembles, changes in quantum mechanical systems with time, and more. The final two chapters discuss applications of statistical mechanics to thermodynamic ...

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I have taken and TA-ed statistical thermodynamics and nonequilibrium statistical mechanics and have found Robert Zwanzig's book to be the best introduction to the nonequilibrium side of things. Clarity is the goal here, without the detail of Kubo's Stat. Phys. II, and MUCH clearer than the latter chapters in McQuarrie.