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Statistical Mechanics

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Statistical Mechanics (solutions) - Pathria, Beale - UCSD ...

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Statistical Mechanics explores the physical properties of matter based on the dynamic behavior of its microscopic constituents. After a historical introduction, this book presents chapters about thermodynamics, ensemble theory, simple gases theory, Ideal Bose and Fermi systems, statistical mechanics of interacting systems, phase transitions, and computer simulations.

Statistical Mechanics - 3rd Edition

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Statistical Mechanics - 4th Edition

The main text for the course is R. K. Pathria and Paul D. Beale, Statistical Mechanics, 3rd Ed., Pergamon, Oxford (2011). Other texts that will sometimes be mentioned and that you may want to consult include: K. Huang, Statistical Mechanics, 2nd Ed., Wiley, New York (1987); F. Reif, Funda-

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Additional material and most of the homework problems will be taken from other sources -- for example, Statistical Mechanics by D.A. McQuarrie (Harper and Row, New York, 1976), Thermodynamics by H.B. Callen (Wiley, New York, 1985), and Statistical Mechanics by R.K. Pathria (Butterworth-Heinemann, Oxford, 1996).

StatMech - Texas A&M University

Statistical Mechanics explores the physical properties of matter based on the dynamic behavior of its microscopic constituents. After a historical introduction, this book presents chapters about thermodynamics, ensemble theory, simple gases theory, Ideal Bose and Fermi systems, statistical mechanics of interacting systems, phase transitions, and computer simulations.

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