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in statistical mechanics, and with some basic concepts from first-year graduate quantum, such as harmonic oscillators and raising and lowering

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Statistical mechanics provides a theoretical bridge that takes you from the micro world<sup>1</sup>, to the macro world<sup>2</sup> The chief architects of the bridge were Ludwig Eduard Boltzmann (1844 - 1906), James Clerk Maxwell (1831-1879), Josiah Willard Gibbs (1839-1903) and Albert Einstein (1879-1953)

### **Statistical Physics - folk.uio.no**

example Moreover, statistical physics in its modern form has given us a complete understanding of second-order phase transitions, and with Wilson's Renormalization Group theory we may calculate the scaling exponents observed in experiments on phase transitions However, the field of statistical physics is in a phase of rapid change

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B B Laud, "Introduction to Statistical Mechanics" (Macmillan 1981) F Reif, "Statistical Physics" (McGraw-Hill 1988) K Haug, "Statistical Physics" (Wiley Eastern, 1988) PAPER 11- SOLID STATE AND NUCLEAR PHYSICS UNIT-I Crystal Structure Lattice translation vectors and lattice, Symmetry operations, Basis and Crystal

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Fundamentals of statistical mechanics by B B Laud, 1998, New age international (P) LTD, (For III&IV) Publishers, New Delhi Other reference: 1 Statistical Mechanics by SK Sinha, Tata McGraw Hills 2 Statistical Mechanics and Properties of Matter by ES Raja Gopal, Mc Millan Company of India Limited

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