



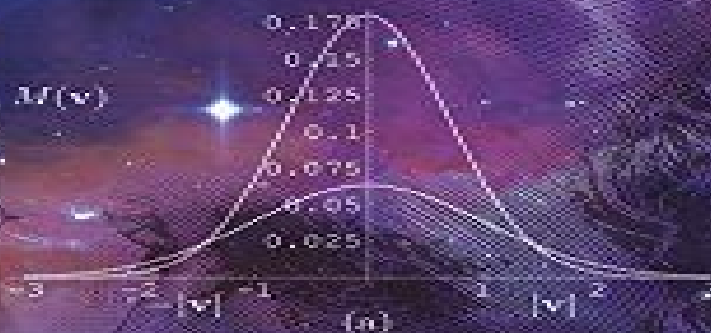
$$dU = TdS - pdV + \sum_i \mu_i dN_i$$

Thermal Physics

Thermodynamics and Statistical Mechanics
for Scientists and Engineers

$$S = -k \sum_i P_i \ln P_i = k \ln \Omega$$

$$J_\omega d\omega = \frac{h}{4\pi^2 c^2} \frac{\omega^3 d\omega}{\exp(h\omega/k_B T) - 1}$$



$$M(\mathbf{v}) d^3v = \prod_{i=1}^3 \left(\frac{m}{2\pi k_B T} \right)^{1/2} \exp \left(-\frac{mv_i^2}{2k_B T} \right) dv_i$$



Robert F. Sekerka

Thermal Physics Thermodynamics And Statistical Mechanics For Scientists And Engineers

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Statistical and Thermal Physics M.D. Sturge,2018-10-08 This book is based on many years of teaching statistical and thermal physics It assumes no previous knowledge of thermodynamics kinetic theory or probability the only prerequisites are an elementary knowledge of classical and modern physics and of multivariable calculus The first half of the book introduces the subject inductively but rigorously proceeding from the concrete and specific to the abstract and general In clear physical language the book explains the key concepts such as temperature heat entropy free energy chemical potential and distributions both classical and quantum The second half of the book applies these concepts to a wide variety of phenomena including perfect gases heat engines and transport processes Each chapter contains fully worked examples and real world problems drawn from physics astronomy biology chemistry electronics and mechanical engineering **Fundamentals of**

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