

Homework

Problems 3.5, 3.7, 3.14, 3.20, 3.21, 3.23, 3.31, 3.32, 3.37

Chapter 3

Problem 3.5. Starting with the result of Problem 2.17, find a formula for the temperature of an Einstein solid in the limit $q \ll N$. Solve for the energy as a function of temperature to obtain $U = N\epsilon e^{-\frac{U}{N\epsilon}}$ (where ϵ is the size of an energy unit).

The definition of temperature in terms of energy is

$$\frac{1}{T} = \frac{\partial S}{\partial U}$$

Let's look at the Einstein solid in low temperature case where the number of energy quanta (q) is very small than the number of oscillations (N). (i.e. $q \ll N$) The multiplicity of such a system is approximately

$$\Omega \approx \left(\frac{N+q}{q} \right)^q$$

The total energy of the system is $U = q\epsilon$ so

$$\Omega \approx \left(\frac{N+\epsilon q}{U} \right)^q$$

Hence the entropy is

$$S = k \ln \Omega$$

$$= k \ln \left(\frac{N+\epsilon q}{U} \right)^q = k q \ln \left(\frac{N+\epsilon q}{U} \right)$$

$$= k q \cdot \{ \ln(N+\epsilon q) - \ln(U) \}$$

$$= \frac{k U}{\epsilon} (\ln(\epsilon N) + 1 - \ln(U))$$

So,

$$\frac{\partial S}{\partial U} = k \frac{\partial (\ln \Omega)}{\partial U}$$

$$\frac{1}{T} = \frac{k}{\epsilon} \frac{\partial U (\ln(\epsilon N) + 1 - \ln(U))}{\partial U}$$

(Using Product Rule)

$$= \frac{k}{\epsilon} (\ln(\epsilon N) + 1 - \ln(U)) - \frac{k}{\epsilon}$$

$$= \frac{k}{\epsilon} (\ln(\epsilon N) - \ln(U))$$

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Measurement, Volume 1 Ghenadii Korotcenkov, 2018-03-15 The first volume of The Handbook of Humidity Measurement focuses on the review of devices based on optical principles of measurement such as optical UV fluorescence hygrometers optical and fiber optic sensors of various types Numerous methods for monitoring the atmosphere have been developed in recent years based on measuring the absorption of electromagnetic field in different spectral ranges These methods covering the optical FTIR and Lidar techniques as well as a microwave and THz ranges are discussed in detail in this volume The role of humidity sensitive materials in optical and fiber optic sensors is also detailed This volume describes the reasons for controlling the humidity features of water and water vapors and units used for humidity measurement **Direct Alcohol Fuel Cells for Portable Applications** Alexandra M. F. R. Pinto, Vania Sofia Oliveira, Daniela Sofia Castro Falcao, 2018-09-08 Direct Alcohol Fuel Cells for Portable Applications Fundamentals Engineering and Advances presents the fundamental concepts technological advances and challenges in developing modeling and deploying fuel cells and fuel cell systems for portable devices including micro and mini fuel cells The authors review the fundamental science of direct alcohol fuel cells covering in detail thermodynamics electrode kinetics and electrocatalysis of charge transfer reactions mass and heat transfer phenomena and basic modeling aspects In addition the book examines other fuels in DAFCs such as formic acid ethylene glycol and glycerol along with technological aspects and applications including case studies and cost analysis Researchers engineering professionals fuel cell developers policymakers and senior graduate students will find this a valuable resource The book's comprehensive coverage of fundamentals is especially useful for graduate students advanced undergraduate students and those new to the field Provides a comprehensive understanding of the fundamentals of DAFCs and their basic components design and performance Presents current and complete information on the state of the art of DAFC technology and its most relevant challenges for commercial deployment Includes practical application examples problems and case studies Covers the use of other fuels such as formic acid ethylene glycol and glycerol **Questions About Elastic Waves** Jüri Engelbrecht, 2015-03-05 This book addresses the modelling of mechanical waves by asking the right questions about them and trying to find suitable answers The questions follow the analytical sequence from elementary understandings to complicated cases following a step by step path towards increased knowledge The focus is on waves in elastic solids although some examples also concern non conservative cases for the sake of completeness Special attention is paid to the understanding of the influence of microstructure nonlinearity and internal variables in continua With the help of many mathematical models for describing waves physical phenomena concerning wave dispersion nonlinear effects emergence of solitary waves scales and hierarchies of waves as well as the governing physical parameters are analysed Also the energy balance in waves and non conservative models with energy influx are discussed Finally all answers are interwoven into the canvas of complexity

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