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Q)) $\Omega(E)$ in phase space c James P Sethna, April 19, 2005 Entropy, Order Parameters, and Complexity 10 Air is a mixture of gases, but most of the molecules are diatomic: O₂ and N₂, with a small admixture of triatomic CO₂ and monatomic Ar The properties of diatomic ideal gases are almost as simple: but one must keep track of the internal rotational degree of freedom (and, at high temperatures ...

Entropy, Order Parameters, and Complexity

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Statistical Mechanics : James Sethna : 9780198566779

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for the solution manual). Latex files for generating your own answer keys are also available.

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James P. Sethna 's Statistical Mechanics: Entropy, Order Parameters, and Complexity does an admirable job of covering the fundamentals while also highlighting nontraditional areas to which statistical mechanics provides useful insights. Examples of applications in nontraditional areas are also presented throughout the text. Although the ordering of the material is nonstandard, in that random ...

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Statistical Mechanics: Entropy, Order Parameters and Complexity / Edition 1. by James P. Sethna ... simplifying and distilling the previous standard topics to make room for new advances and methods. Sethna's book takes this step for statistical mechanics—a field rooted in physics and chemistry whose ideas and methods are now central to ...

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The book Statistical Mechanics: Entropy, Order Parameters and Complexity by James Sethna is excellent. I have used it as the main textbook in my course on Statistical Physics for first year graduate students at the Universidade Estadual de Campinas (UNICAMP) in Brazil. The students and I liked it very much.

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Statistical Mechanics Entropy, Order Parameters, and Complexity James P. Sethna Laboratory of Atomic and Solid State Physics, Cornell University, Ithaca, NY 14853-2501 The author provides this version of this manuscript with the primary in-tention of making the text accessible electronically—through web searches

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