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The Entropy, Order Parameters, and Complexity f26 Random Walks and Emergent Properties net energy from this reaction depends on details, but varies between about 2 and 5 times 10⁷20 Joule. This is actually a Gibbs free energy di?erence, but for this exercise treat it as just an energy di?erence.

Statistical mechanics: Entropy, Order parameters and...

$S/k_B = -(N \log N + N \log A) + N \log A$? 2 We divide out one of the N 's and recombine the log to find u0013 u0012 u0013 u0012 A A? N ? 1 A = 1 + log ? ?b , $S/k_B = 1 + \log N$ 2 N where b= A? N ? 1 ? 2?r2 N 2 Copyright James P. Sethna 2011 -- Copyright Jam f24 Copyright James P. Sethna, 2011.

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Text is the second edition, Statistical Mechanics: Entropy, Order Parameters, and Complexity, second edition (Jan. 2020). New and modified exercises have been added to the first edition. This course focuses on those topics in statistical mechanics of interest to scholars in many fields.

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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.