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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 10²⁰ Joule. This is actually a Gibbs free energy difference, but for this exercise treat it as just an energy difference.

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$SQ/kB = - (N \log N + N \log A) / 2$ We divide out one of the N's and recombine the log to find $u0013 u0012 u0013 u0012 A \rho N \ln A = 1 + \log \frac{b}{A}$, $SQ/NkB = 1 + \log N \ln 2 N$ where $b = A \rho N \ln 2 \ln 2$ Copyright James P. Sethna 2011 -- Copyright Jam f24 Copyright James P. Sethna, 2011.

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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.