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Daniel V. Schroeder, "Renormalization," in the Macmillan Encyclopedia of Physics, Macmillan, New York, 1996. Daniel V. Schroeder and Zu Xin Yu, "Fractional Luminosity Near Maximum Energy in the Presence of Beamstrahlung," in Physics and Experiments with Linear e+e- Colliders, ed. F. A. Harris, et al., World Scientific, Singapore, 1993.

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I have worked with undergraduate students on a variety of projects in quantum mechanics, thermal physics, relativity, and other areas of theoretical physics. Most of these projects have included computational work, and some have involved the creation of interactive web applications for public outreach.

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Reference: Daniel V. Schroeder, An Introduction to Thermal Physics, (Addison-Wesley, 2000) - Problem 4.20. Post date: 30 May 2016 The efficiency of an internal combustion engine is $e = \frac{W}{Q_h} = 1 - \frac{V_2}{V_1}$ (1) The ratio $V_1 = V_2$ is known as the compression ratio (remember $V_1 > V_2$ so this is always greater than 1), and is the ratio of the minimum ...

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This book is a very good introduction to statistical mechanics (and some thermal physics topics are inside, too). The title is Thermal Physics, but I think this book is better read with the mindset of being able to learn enough to be able to read more advanced statistical mechanics textbooks.

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