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General Comments. 8.20 is an introduction to Einstein's Special Theory of Relativity. We will probably have a lecture or two to introduce his General Theory as well, but the principal focus will be on special relativity, which we will study in quite a bit of detail.

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(relativity being too controversial then). Einstein wrote two theories of relativity; the 1905 work is known as “special relativity” because it deals only with the special case of uniform (i.e. non-accelerating) motion. In 1915 he published his “general theory of relativity”, dealing

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with gravity and acceleration. Strange things happen in accel-

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It's a clear, patient, matter-of-fact introduction to the subject which takes the time to clarify many of the obscure and seemingly contradictory aspects of special relativity. It's written about at the level of the famous Halliday and Resnick university physics books. I found the book to be very useful as an introduction.

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Resnick. Chapter 3, Supplements A and B. (Supplement A was also assigned on problem set 1, now would be a good time to study it further.) French. Chapter 5, pp. 134-159, chapter 6. 4. VII. Relativistic Momentum and Energy II: Four Vectors and Transformation Properties. VIII. General Relativity: Einstein's Theory of Gravity. Resnick. Chapter 3 ...

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Special relativity Skills: Problem solving Reasoning from observations and experiment \Reading an equation" Working with equipment and with phenomena ... David Halliday, Robert Resnick, and Jearl Walker, Fundamentals of Physics, ninth edition (John Wiley and

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