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when I was at my Dad's and stepmom's house, I found the book "An Introduction to General Relativity, Spacetime and Geometry", by Sean M Carroll. I was struck by the promise at the beginning of the preface: "... it is an unalloyed joy to finally reach the point in one's studies where these phenomena may be understood in a ... *Spacetime and Geometry: An Introduction to General Relativity* The primary question facing any introductory treatment of general relativity is the level of mathematical rigor at which to operate. There is no uniquely proper solution, as different students will respond with different levels of understanding and enthusiasm to different approaches. Recognizing this, I have tried to provide something for everyone. *Lecture Notes on General Relativity - arXiv* Carroll: *Spacetime Geometry* exercises Question I have been working from this book in the last 8 weeks, but I have never been able to check what I'm doing is actually correct. Carroll: *Spacetime Geometry* exercises : Physics Sean Carroll's No-Nonsense Introduction to General Relativity John Baez: the General Relativity Tutorial Visualisierung in der Relativitätstheorie (Uni Stuttgart), Studying null and time-like geodesics in the classroom *General Relativity Autumn 2011 - Universität Bern* Bernard F. Schutz [AEI/ Cardiff] A first course in general relativity (Cambridge University Press, 1990). w/ Solutions to some problems James B. Hartle , *Gravity: An Introduction to Einstein's General Relativity* (Addison-Wesley, 2003). PHZ 6607 -- Special and General Relativity -- Fall 2016 Abstract: These notes represent approximately one semester's worth of lectures on introductory general relativity for beginning graduate students in physics. Topics include manifolds, Riemannian geometry, Einstein's equations, and three applications: gravitational radiation, black holes, and cosmology. [gr-qc/9712019] *Lecture Notes on General Relativity* There are many texts on General Relativity. You can read for free some that can be viewed on-line: go to the Roger on the UCSD library web page, and search for "General Relativity" or the like and select "Electronic materials." You must be on the UCSD network to access these materials. *Phys 225B - General Relativity* LECTURE NOTES ON GENERAL RELATIVITY Sean M. Carroll Enrico Fermi Institute University of Chicago, 5460 S. Ellis Ave., Chicago, IL 60637 December 1997 Abstract. These notes represent approximately one semester's worth of lectures on introductory general relativity for beginning graduate students in physics. *Lecture Notes on General Relativity - S. Carroll* *Spacetime and Geometry: An Introduction to General Relativity* provides a lucid and thoroughly modern introduction to general relativity. With an accessible and lively writing style, it introduces modern techniques to what can often be a formal and intimidating subject. *Spacetime and Geometry: An Introduction to General Relativity* For more on Carroll and his publications, see Carroll's homepage . *Relativity: Special, General and Cosmological*, by Wolfgang Rindler (2001) This is an introduction for math and

physics students at a similar level to Schutz(2009) and Hobson et al. (2006). Unlike the latter two references who start with a single chapter on Special Relativity ...Robert Scott's self-study notes - univ-brest.fr General Relativity by Robert Wald Introducing Einstein's Relativity by Ray D'Inverno Spacetime and geometry: an introduction to general relativity by Sean Carroll. Gravity: an introduction to Einstein's general relativity, James B. Hartle. The Classical Theory of Fields , volume 2 (red) of Landau and Lifshitz. Homework: Yes. Due in class (or ...Physics 225A, Fall 2013 Using a lucid style, Carroll first covers the foundations of the theory and mathematical formalism, providing an approachable introduction to what can often be an intimidating subject. Three major applications of general relativity are then discussed: black holes, perturbation theory and gravitational waves, and cosmology. Spacetime and Geometry: An Introduction to General ...Carroll is the author of Spacetime And Geometry, a graduate-level textbook in general relativity, and has also recorded lectures for The Great Courses on cosmology, the physics of time, and the Higgs boson.

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