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Chapter 2. Einstein equations and Schwarzschild solution. The Einstein equations are usually written in the following form¹:
$$G_{\mu\nu} \equiv R_{\mu\nu} - \frac{1}{2} R g_{\mu\nu} = 8\pi T_{\mu\nu}.$$
Note: • The quantity $G_{\mu\nu}$ is called the Einstein tensor, while $T_{\mu\nu}$ is called stress-energy tensor.

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These solutions reflect assignments made by Professor Igor Klebanov at Princeton University during his semester course on General Relativity during the fall of 2006. The course began relatively slowly, and picked up pace toward the end. The homeworks reflect this. The main course textbook was Bernard Schutz' A First Course in General Relativity...

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