



General Relativity

By Wald, Robert M.

University Of Chicago Press, 1984. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: PrefaceNotation and ConventionsPART I. FUNDAMENTALS1. Introduction1.1 Introduction1.2 Space and Time in Prerelativity Physics and in Special Relativity1.3 The Spacetime Metric 1.4 General Relativity 2. Manifolds and Tensor Fields2.1 Manifolds2.2 Vectors2.3 Tensors; the Metric Tensor2.4 The Abstract Index Notation3. Curvature3.1 Derivative Operators and Parallel Transport3.2 Curvature3.3 Geodesics3.4 Methods for Computing Curvature4. Einstein's Equation4.1 The Geometry of Space in Prerelativity Physics; General and Special Covariance 4.2 Special Relativity 4.3 General Relativity 4.4 Linearized Gravity: The Newtonian Limit and Gravitational Radiation5. Homogeneous, Isotropic Cosmology5.1 Homogeneity and Isotrophy5.2 Dynamics of a Homogeneous, Isotropic Universe5.3 The Cosmological Redshift; Horizons5.4 The Evolution of Our Universe6. The Schwartzschild Solution 6.1 Derivation of the Schwartzschild Solution 6.2 Interior Solutions 6.3 Geodesics of Schwartzschild: Gravitation Redshift, Perihelion Precession, Bending of Light, and Time Delay6.4 The Kruskal ExtensionPART II. ADVANCED TOPICS7. Methods for Solving Einstein's Equation 7.1 Stationary, Axisymmetric Solutions 7.2 Spatially Homogeneous Cosmologies7.3 Algebraically Special Solutions7.4 Methods for Generating Solutions7.5 Perturbations8. Casual Structure8.1 Futures and Pasts: Basic Definitions and Results8.2 Causality Conditions 8.3 Domains of Dependence; Global Hyperbolicity 9. Singularities 9.1 What is a Singularity? 9.2 Timelike and Null Geodesic Congruences 9.3 Conjugate Points 9.4 Existence of

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