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The Einstein Summation Convention Is Assumed: Repeated Upper And Lower Indices Are To Be Summed Over Their Ranges, E.g.,  $A\mu B \mu \equiv A0B0 + A1B1 + A2B2 + A3B3$ . Four-vectors Will Be Represented With Jul 2th, 2024CRITICISMS TO THE GENERAL RELATIVITYR Y R R Y  $\partial$   $\partial$  =  $\rightarrow$ 0 Now: Y R R C GM Rc GM C Y R R R V Y R Y V  $\partial$   $\partial$  - =  $\partial$   $\partial$   $\partial$  =  $\partial$   $\partial$   $\partial$  =  $\partial$ ∂ 2 2 2]) 2 ([1, From Which: R C GMR R R R R C GM Y R R C GM Y V Y Y 2 3 0 2 0 2 2 2 Now, We Calculate The Difference Between The Paths Dx And Dx' Of Wavefronts At A Vertical Distance Y And Y+dy, At Which Feb 3th, 2024General Relativity Fall 2018 Lecture 11: Linearized ...A. Gauge Transformations; Gauge-invariant Variables In At Spacetime (or In A Locally Inertial Coordinate System) Maxwell's Equations Are I = @ F @ (@ A @ A) = A @ @ A; @ @; (1) Where A Is The 4-vector Potential, De Ned By F = 2@ [A]. 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