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9.7Standalonedocumentviewer 10 May 14th, 2024.

Relativity 1 Newtonian Relativity $Z S X' Y' Z' S' V$ Consider Tossing A Ball Vertically In A Moving Car $X X Vt Yy Zz \dots$ (You Then Create A Shock Wave, Which Gives Rise To A Sonic Boom. By The Way, This Car Experiment Was Actually Done Recently!) So Honking The Horn Is Not The Same As Tossing A Ball Forward. The Velocity Of The Sound Jan 4th, 2024 Notes On Perturbation Methods In General Relativity Each Of Sections V To XII Discuss Some Aspect Of Perturbation Theory, Or Derive Some Useful Relationship. However, Each Section Essentially Stands Alone; I Might Not Actually Discuss Each Of These Sections In Class. I. FIRST ORDER PERTURBATION ANALYSIS Perturbation Analysis Provides The Framework For An Understanding Of The Effects Of A Jan 1th, 2024 Introduction To Tensor Calculus For General Relativity The Speed Of Light $C=1$. Greek Indices (μ, ν , Etc., Which Take The Range $\{0,1,2,3\}$) Will Be Used To Represent Components Of Tensors. The Einstein Summation Convention Is Assumed: Repeated Upper And Lower Indices Are To Be

Summed Over Their Ranges, E.g., $A_\mu B^\mu \equiv A^0 B^0 + A^1 B^1 + A^2 B^2 + A^3 B^3$. Four-vectors Will Be Represented With May 10th, 2024.

CRITICISMS TO THE GENERAL RELATIVITY $\partial_\nu \partial^\nu = \partial^2$ Now: $\partial_\nu \partial^\nu A_\mu = \partial_\mu \partial_\nu A^\nu$
 $\partial_\nu \partial^\nu A_\mu = \partial_\mu \partial_\nu A^\nu$ $\partial_\nu \partial^\nu A_\mu = \partial_\mu \partial_\nu A^\nu$
 C Y R R R V Y R Y V $\partial_\nu \partial^\nu = \partial^2$ $\partial_\nu \partial^\nu A_\mu = \partial_\mu \partial_\nu A^\nu$
 R R R C G M Y R R C G M 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
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 Transformations; Gauge-invariant Variables In At Spacetime (or In A Locally Inertial
 Coordinate System) Maxwell's Equations Are $\partial_\nu F^{\nu\mu} - \partial^\mu F = 4\pi j^\mu$
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 ; (1) Where A Is The 4-vector Potential, De Ned By $F = \partial_\mu A_\nu - \partial_\nu A_\mu$. A Priori There Are
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 $\partial_\nu F^{\nu\mu} - \partial^\mu F = 4\pi j^\mu$
 ; (1) Where A Is The 4-vector Potential, De Ned By $F = \partial_\mu A_\nu - \partial_\nu A_\mu$. A Priori There Are 4
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Compute U_1 And V As A Function Of U_0 . Please Leave Your Answer (for This Part) In Terms Of U_0 ; No Need To Expand Out The Relation Explicitly. Sol. We Simply Compute: $U_1 = P_1 + (U_0)^2 = P_2 g x + G_2 x^2$ And Thus: $V = U_1 U_0 = P_2 g x + G_2 x^2 + G x$ (b) Calculate $V(x)$ In The Limits Of $x \rightarrow 0$ (to Lowest Non-vanishing ... Feb 2th, 2024

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