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Relativity 1 Newtonian Relativity

Z S X' Y' Z' S' V Consider Tossing A Ball Vertically In A Moving Car X X Vt Y Z ... (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 2th, 2024

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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 4th, 2024

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A. Gauge Transformations; Gauge-invariant Variables In At Spacetime (or In A Locally Inertial Coordinate System) Maxwell's Equations Are $J = @ F @ (@ A @ A) = A @ @ A ; @ @ ; (1)$ Where A Is The 4-vector Potential, De Ned By $F = 2@ [A]$. A Priori There Are 4 Degrees Of Freedom In This Theory, The 4 Components Of A . 2th, 2024

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$U_0 = 1 + Gx$ Where G is A Constant. (a) Please 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:
 $V = U_1 U_0 = P_2 g x + G_2 x^2 + P_1 + G_1 x$ (b) Calculate $V(x)$ In
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