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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 May 1th, 2024

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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 Feb 1th, 2024

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$R^{\alpha\beta\gamma\delta} R_{\alpha\beta\gamma\delta} = 0$ Now: $R^{\alpha\beta\gamma\delta} R_{\alpha\beta\gamma\delta} = 0$ Now, We Calculate The Difference Between The Paths Dx And Dx' Of Wavefronts At A Vertical Distance Y And $Y+dy$, At Which Mar 2th, 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 $\partial_\mu F^{\mu\nu} = \partial_\mu (A^\mu - A^\nu) = \partial_\mu A^\mu - \partial_\mu A^\nu$; (1) Where A Is The 4-vector Potential, De Ned By $F = 2\partial [A]$. A Priori There Are 4 Degrees Of Freedom In This Theory, The 4 Components Of A . May 1th, 2024

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Gauge Transformations; Gauge-invariant Variables In At Spacetime, Maxwell's Equations Are $\partial_\mu F^{\mu\nu} = \partial_\mu (A^\mu - A^\nu) = \partial_\mu A^\mu - \partial_\mu A^\nu$; (1) Where A Is The 4-vector Potential, De Ned By $F = 2\partial [A]$. A Priori There Are 4 Degrees Of Freedom In This Theory, The 4 Components Of A . However, We Can Make The Following Gauge Transformations Without ... May 2th, 2024

PHYSICS 631: General Relativity Sol.

$U_0 = 1 + Gx$ 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: $U_1 = P_1 + (U_0)^2 = P_2 gx + G^2 x^2$ And Thus: $V = U_1 U_0 = P_2 gx + G^2 x^2 (1 + Gx)$ (b) Calculate $V(x)$ In The Limits Of $X \ll 0$ (to Lowest Non-vanishing ... Feb

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Chapter 3 General Relativity In A Nutshell Asalreadymentionedbefore,aNewtoniandescriptionoftheuniversehasonlylimited

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