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MC2 MA6 Motor MC9 A Goa A MB2 MC3 MB4 MBI RBI  
MAI 1 B14 O—B16 Damper MB2 D4 Urethane Bumper  
MA3 DESCRIPTION Chassis A Parts (AI-AIO) B Parts D  
Parts (DI P Parts (PI-P7) Urethane Bumper Wheel Tire  
Motor Shaft Bag CI Drive Shaft C2 Wheel Axle Jan 10th,  
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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 Yy Zz ... (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 Feb 6th, 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 Mar 13th, 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  $A$  . May 3th, 2024

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Gauge Transformations; Gauge-invariant Variables In  
 At Spacetime, 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  $A$  . However, We Can Make The  
 Following Gauge Transformations Without ... Jan 7th,  
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**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:  $U_1 = P \cdot 1 + (U_0)^2 = P \cdot 2gx + G^2x^2$  And Thus:  $V = U_1 U_0 = P \cdot 2gx + G^2x^2 \cdot 1 + Gx$  (b) Calculate  $V(x)$  In The Limits Of  $x \rightarrow 0$  (to Lowest Non-vanishing ... Mar 4th, 2024

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