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That On One Space Ship Water Boils At 100 C, On Another Hurtling Towards The first It Boils At 150 C And On Another Hurtling Away From The first, It Boils At 70 C. In Other Words, The Various Laws Of Physics Being Tested Here Yield Exactly The Same Results For All The Spaceships, In Accordance With The Principle Of Relativity.
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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
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Concerning The Two Chief World Systems Using The Example Of A Ship Travelling At
Constant Velocity, Without Rocking, On A Smooth Sea; Any Observer Doing
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Thus The Time Dilation Effect Is Negligible. But Now Suppose A Starship Coming Down The Same Road At $v = 0.99c$. Then $\gamma = \frac{1}{\sqrt{1 - 0.99^2}} \approx 7.09$, And We Obtain “ $\Delta t' = \gamma \Delta t = 7.09 \Delta t$ ”: So From The Rest Frame Of The Starship The Clock Appears To Be Ticking About 7 Times Slower Than For An Observer On The Side Of The Road ... 21th, 2024

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Train Is In Motion By Carrying Out An Experiment, Such As Playing A Game Of Pool. But, As Described Above, A Game Of Pool Proceeds In Exactly The Same Way As If It Were Being Played Back Home - No Change In Shot-making Is Required. There Is No Indication From This Experiment As To Whether Or Not The 1th, 2024

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Answers May Vary. Sample Answers: (a) The Three Most Natural Reference Frames To Use Would Be: 1) A Frame Moving Alongside The Skater At The Same Velocity; 2) A Frame Fixed On The Deck Of The Boat; And, 3) A Frame Fixed On The Shoreline. (b) For Reference Frame 1 In Part (a), The Student On Skates Would Not Be Movi
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(em) As The Stress-energy Tensor Of The Electromagnetic Eld, Since Its Satis Es $R T$ (em) + T (particles) = 0 : STRESS-ENERGY TENSOR OF AN IDEAL FLUID An Ideal Uid Is Isotropic In A Preferred LICs, Called The Uid's Rest Frame. This Means That, In This Frame, There Is No Preferred Direction, Thus $T_{0i} = 0$ And $T_{ij} = p \delta_{ij}$ 13th, 2024

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