Physics 203 Practice Problems – July 21st, 2022

1)

The current world record in the 100 metres for men (athletics) was set at 9.58 seconds by Usain Bolt in 2009.

(a) From Usain Bolt's point of view there is a relativistic correction to the distance he ran. Calculate that correction assuming the entire sprint is at constant speed.

[Note: Your answer may seem small in the extreme, yet very small numbers are not always crazy; LIGO detects mirror displacements due to gravitational waves on the order of 10^{-18} m.]

[2 mark]

His speed is $v = \dfrac{L}{\Delta t} = \dfrac{100\,m}{9.58\,s} = 10.4\,m/s$.

In his frame he sees a contracted length $L' = \dfrac{L}{\gamma}$, so relativistic correction is

$(\delta L)_{rel} = L - L' = (1 - \gamma^{-1})L = \left(1 - \sqrt{1 - \tfrac{v^2}{c^2}}\right)L$

$= \left(1 - \left(1 - \tfrac{1}{2}\tfrac{v^2}{c^2}\right)\right)L$

$= \tfrac{1}{2}\tfrac{v^2}{c^2}L = 6.0 \times 10^{-14}\,m$

(b) If relativity is considered, a clock carried by Usain Bolt would also disagree with the timing. Calculate the timing *difference*.

[2 mark]

His clock runs slower and records the time $\Delta t' = \gamma^{-1}\Delta t$.

Relativistic correction is

$(\delta t)_{rel} = (1 - \gamma^{-1})\Delta t$

$= \left(1 - \sqrt{1 - \tfrac{v^2}{c^2}}\right)\Delta t$

$= \tfrac{1}{2}\tfrac{v^2}{c^2}\Delta t = 5.75 \times 10^{-15}\,s$.

(c) In which frame of reference (Usain Bolt's or the stationary frame of the track) is the proper length measured (part (a)) and in which is the proper time measured (part (b))?

[1 mark]

Proper length measured in the frame of the track.
Proper time in Usain Bolt's frame (where start and finish are at the same point in space).

Special Relativity Practice Problems And Solutions

Robert Resnick,David Halliday,Kenneth S. Krane

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   Special Relativity Michael Tsamparlis,2010-05-17 Writing a new book on the classic subject of Special Relativity on which numerous important physicists have contributed and many books have already been written can be like adding another epicycle to the Ptolemaic cosmology Furthermore it is our belief that if a book has no new elements but simply repeats what is written in the existing literature perhaps with a different style then this is not enough to justify its publication However after having spent a number of years both in class and research with relativity I have come to the conclusion that there exists a place for a new book Since it appears that somewhere along the way mathem ics may have obscured and prevailed to the degree that we tend to teach relativity and I believe theoretical physics simply using heavier mathematics without the inspiration and the mastery of the classic physicists of the last century Moreover current trends encourage the application of techniques in producing quick results and not tedious conceptual approaches resulting in long lasting reasoning On the other hand physics cannot be done a la carte stripped from philosophy or to put it in a simple but dramatic context A building is not an accumulation of stones As a result of the above a major aim in the writing of this book has been the distinction between the mathematics of Minkowski space and the physics of r ativity   **Engineering Physics Questions and Answers PDF** Arshad Iqbal, The Engineering Physics Quiz Questions and Answers PDF Engineering Physics Competitive Exam Questions Chapter 1 36 Practice Tests Class 8 12 Physics Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Engineering Physics Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Engineering Physics Quiz PDF book helps to practice test questions from exam prep notes The Engineering Physics Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Engineering Physics Objective Questions and Answers PDF Free Download chapter 1 a book covers solved common questions and answers on chapters Alternating fields and currents astronomical data capacitors and capacitance circuit theory conservation of energy coulomb s law current produced magnetic field electric potential energy equilibrium indeterminate structures finding electric field first law of thermodynamics fluid statics and dynamics friction drag and centripetal force fundamental constants of physics geometric optics inductance kinetic energy longitudinal waves magnetic force models of magnetism newton s law of motion Newtonian gravitation Ohm s law optical diffraction optical interference physics and measurement properties of common elements rotational motion second law of thermodynamics simple harmonic motion special relativity straight line motion transverse waves two and three dimensional motion vector quantities work kinetic energy theorem tests for college and university revision guide Physics Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The Engineering Physics Interview Questions Chapter 1 36 PDF book includes high school question papers to review practice tests for exams Engineering Physics Practice Tests a textbook s revision guide with chapters tests for NEET Jobs

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