

Part 2: Build a Second Hill

Setup: Keeping the first hill at the same height, have another group reshape and fold the remaining the pipe insulation into a second hill. Release the marble from the top of the 1st hill.

7. Does the marble make it over the second hill? (If not, adjust your second hill so that the marble makes it over.)

8. What is the height of the second hill?

Example: 2nd second hill height = 0.4m

9. What is the total mechanical energy of the marble at the top of the second hill?

TME = 0.03 J, because TME is constant throughout the entire system.

10. Would it ever be possible for a roller coaster to go to the top of a second hill that is higher than the top of a 1st hill? Why or why not?

No, GPE can never be higher than at the beginning of the 1st hill. TME is constant.

11. What is the GPE of the marble at the top of the second hill, right before it starts to roll down the hill? (Show your calculations.)

$$\text{GPE} = mgh = (0.005 \text{ kg})(9.8 \text{ m/s}^2)(0.4 \text{ m}) \\ = \boxed{0.02 \text{ J}}$$

12. What is the KE of the marble at the top of the second hill, right before it starts to roll down the hill? (Show your calculations.)

$$\text{TME} = \text{GPE} + \text{KE} \\ 0.03 \text{ J} = 0.02 \text{ J} + \text{KE} \quad \boxed{\text{KE} = 0.01 \text{ J}}$$

13. What is the velocity of the marble at the top of the second hill? (Show your calculations.)

$$\text{KE} = \frac{1}{2}mv^2 \\ 0.01 \text{ J} = \frac{1}{2}(0.005 \text{ kg})v^2 \\ \boxed{v = 2 \text{ m/s}}$$



Simulation Lab Roller Coaster Physics Answers

Lauren K. Lee



Simulation Lab Roller Coaster Physics Answers:

Artificial Intelligence in Education Ning Wang, Genaro Rebolledo-Mendez, Noboru Matsuda, Olga C. Santos, Vania Dimitrova, 2023-06-25 This book constitutes the refereed proceedings of the 24th International Conference on Artificial Intelligence in Education AIED 2023 held in Tokyo Japan during July 3 7 2023 This event took place in hybrid mode The 53 full papers and 26 short papers presented in this book were carefully reviewed and selected from 311 submissions The papers present result in high quality research on intelligent systems and the cognitive sciences for the improvement and advancement of education The conference was hosted by the prestigious International Artificial Intelligence in Education Society a global association of researchers and academics specializing in the many fields that comprise AIED including but not limited to computer science learning sciences and education

Encyclopedia of the Sciences of Learning Norbert M. Seel, 2011-10-05 Over the past century educational psychologists and researchers have posited many theories to explain how individuals learn i.e. how they acquire organize and deploy knowledge and skills The 20th century can be considered the century of psychology on learning and related fields of interest such as motivation cognition metacognition etc and it is fascinating to see the various mainstreams of learning remembered and forgotten over the 20th century and note that basic assumptions of early theories survived several paradigm shifts of psychology and epistemology Beyond folk psychology and its naive theories of learning psychological learning theories can be grouped into some basic categories such as behaviorist learning theories connectionist learning theories cognitive learning theories constructivist learning theories and social learning theories Learning theories are not limited to psychology and related fields of interest but rather we can find the topic of learning in various disciplines such as philosophy and epistemology education information science biology and as a result of the emergence of computer technologies especially also in the field of computer sciences and artificial intelligence As a consequence machine learning struck a chord in the 1980s and became an important field of the learning sciences in general As the learning sciences became more specialized and complex the various fields of interest were widely spread and separated from each other as a consequence even presently there is no comprehensive overview of the sciences of learning or the central theoretical concepts and vocabulary on which researchers rely The Encyclopedia of the Sciences of Learning provides an up to date broad and authoritative coverage of the specific terms mostly used in the sciences of learning and its related fields including relevant areas of instruction pedagogy cognitive sciences and especially machine learning and knowledge engineering This modern compendium will be an indispensable source of information for scientists educators engineers and technical staff active in all fields of learning More specifically the Encyclopedia provides fast access to the most relevant theoretical terms provides up to date broad and authoritative coverage of the most important theories within the various fields of the learning sciences and adjacent sciences and communication technologies supplies clear and precise explanations of the theoretical terms cross references to related entries and up to date references to important research and

publications The Encyclopedia also contains biographical entries of individuals who have substantially contributed to the sciences of learning the entries are written by a distinguished panel of researchers in the various fields of the learning sciences

More Virtual Field Trips Gail Cooper,Garry Cooper,1999-07-15 The amazing growth and popularity of the Internet means more opportunities to learn Responding to the tremendous interest in their previous volume Virtual Field Trips Libraries Unlimited 1997 and to specific requests from users Cooper and Cooper bring you a host of new and exciting sites for educational field trips into cyberspace The new trips and topics reflect current curricular requirements and goals such as business women s history conflict resolution and multiculturalism Trips for physically and emotionally challenged students and for those who wish to get to know them better have been added and there are more sites for physical education health and safety rural and architectural trips Like the first volume this book is organized by subject Together the two books can provide hours of opportunities for educators and students to travel throughout the world and back and forth in time to study natural phenomena and participate in cultural and scientific activities with practicing

At the Edge of the Universe Shaun David Hutchinson,2017-02-07 From the author of We Are the Ants comes another winner Booklist starred review about a boy who believes the universe is slowly shrinking as the things he remembers are being erased from others memories Tommy and Ozzie have been best friends since the second grade and boyfriends since eighth They spent countless days dreaming of escaping their small town and then Tommy vanished More accurately he ceased to exist erased from the minds and memories of everyone who knew him Everyone except Ozzie Ozzie doesn t know how to navigate life without Tommy and soon he suspects that something else is going on that the universe is shrinking When Ozzie is paired up with the reclusive and secretive Calvin for a physics project it s hard for him to deny the feelings developing between them even if he still loves Tommy But Ozzie knows there isn t much time left to find Tommy that once the door closes it can t be opened again And he s determined to keep it open as long as possible

Current Index to Journals in Education ,2002 **DOE this Month** ,1985 *AAPT Announcer* American Association of Physics Teachers,1980 Physics Briefs ,1992 **The Shark's**

Paintbrush Jay Harman,2013-06-25 The wave of the future has been around since the beginning of times it s called Nature Let inventor and entrepreneur Jay Harman introduce you to stunning solutions to some of the world s thorniest problems Why does the bumblebee have better aerodynamics than a 747 How can copying a butterfly wing reduce the world s lighting energy bill by 80% How will fleas knees and bees shoulders help scientists formulate a near perfect rubber Today an interdisciplinary and international group of scientists inventors and engineers is turning to nature to innovate and find elegant solutions to human problems The principle driving this transformation is called biomimicry and Harman shares a wide range of examples of how we re borrowing from natural models to invent profitable green solutions to pressing industrial challenges Aimed at a business audience aspiring entrepreneurs environmentalists and general science readers The Shark s Paintbrush reflects a force of change in the new global economy that does more than simply gratify human

industrial ambition it teaches us how to live in harmony with nature and opens bright opportunities for a better future

The Elementary School Library Collection Lauren K. Lee,1992 **The Elementary School Library Collection, Phases 1-2-3** ,1992 *Men's Health* ,2008-01 Men s Health magazine contains daily tips and articles on fitness nutrition relationships sex career and lifestyle **Press Summary - Illinois Information Service** Illinois Information Service,1991

Forthcoming Books Rose Arny,1996-06 *Who's Who in Finance and Business* Marquis Who's Who, LLC,National Register Publishing,2005-12 *Dynamic Simulation and Design of Roller Coaster Motion* Martin Tändl,2009 Roller Coaster Physics Tom Wayne,1998 This section of the Physics Pavilion will discuss some of the principles involved in the design of a roller coaster It is intended for the middle or high school teacher Physics students may find the information helpful as well Many of the concepts can be applied to topics other than roller coasters Home page **K'nex Roller Coaster Physics , Dynamic Simulation and Analysis of Roller Coasters** Darla Lynette Weiss,1998

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