

SFU Phys101 Summer 2013

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Assignment 4

Due: 11:59pm on Friday, May 31, 2013

Note: You will receive no credit for late submissions. To learn more, read your instructor's [Grading Policy](#).

± Hooke's Law

Description: ± Includes Math Remediation. Analyze the force of springs on Haitian taptaps as an application of Hooke's law.

Learning Goal:

To understand the use of Hooke's law for a spring.

Hooke's law states that the *restoring force* \vec{F} on a spring when it has been stretched or compressed is proportional to the displacement \vec{x} of the spring from its equilibrium position. The equilibrium position is the position at which the spring is neither stretched nor compressed.Recall that $\vec{F} \propto \vec{x}$ means that \vec{F} is equal to a constant times \vec{x} . For a spring, the proportionality constant is called the *spring constant* and denoted by k . The spring constant is a property of the spring and must be measured experimentally. The larger the value of k , the stiffer the spring. In equation form, Hooke's law can be written

$$\vec{F} = -k\vec{x}.$$

The minus sign indicates that the force is in the opposite direction to that of the spring's displacement from its equilibrium length and is "trying" to *restore* the spring to its equilibrium position. The magnitude of the force is given by $F = kx$, where x is the magnitude of the displacement.

In Haiti, public transportation is often by taptaps, small pickup trucks with seats along the sides of the pickup bed and railings to which passengers can hang on. Typically they carry two dozen or more passengers plus an assortment of chickens, goats, luggage, etc. Putting this much into the back of a pickup truck puts quite a large load on the truck's springs.

A truck has springs for each wheel, but for simplicity assume that the individual springs can be treated as one spring with a spring constant that includes the effect of all the springs. Also for simplicity, assume that all four springs compress equally when weight is added to the truck and that the equilibrium length of the springs is the length they have when they support the load of an empty truck.

Part A

A 68 kg driver gets into an empty taptap to start the day's work. The springs compress 2.5×10^{-2} m. What is the effective spring constant of the spring system in the taptap?

Enter the spring constant numerically in newtons per meter using two significant figures.

Hint 1. How to approach the problem

The compression of the springs is governed by Hooke's law. The amount the springs are compressed when the driver climbs into the truck is given in the problem statement. The force that acts to compress the springs is the force caused by the driver getting into the truck.

ANSWER:

$$k = \frac{mg}{\Delta x} = 2.7 \times 10^4 \text{ N/m}$$

If you need to use the spring constant in subsequent parts, use the full precision value you calculated, only rounding as a final step before submitting your answer.

Part B

After driving a portion of the route, the taptap is fully loaded with a total of 26 people including the driver, with an average mass of 68 kg per

Physics Eposode 4answers

David Kirk



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Proceedings of the 4th International Conference on Education and Technology (ICETECH 2023) Jeffry Handhika, Marheny Lukitasari, Sigit Ricahyono, Dewanta Arya Nugraha, 2024-11-28 This is an open access book. There has been an extraordinary acceleration in the use of digital technology in the world of education during the Covid 19 pandemic. So it is necessary to have discussions and solutions on how digital technology can be the answer to problems of access to quality and social justice in the education sector. Researchers and experts are encouraged to innovate across fields to support the four global issues of G20: presidential education, Universal Quality Education, Digital Technologies in Education, Solidarity and Partnership, The Future of Work, Post Covid 19. The 4th International Conference on Education and Technology ICETECH 2023 organized by Universitas PGRI Madiun, UNIPMA Indonesia is a forum for researchers, experts, academics, educators, stakeholders, and students to exchange experiences through research results in STEAM Based Education, Digital humanities, Artificial Intelligence, Applied Science, Curriculum and Instruction, Digital Entrepreneurs, Digital Education, Financial Technology, and Education. *Vol 01: General Physics: Adaptive Problems Book in Physics for College & High School*

SATYAM SIR, 2021-11-26 This book will cover the following: Chapter s Basic Math for Physics, Vectors, Units and Measurements. This book contains Basic Math for Physics, Vectors, Units and Measurements. It is divided into several subtopics where it has levelwise easy, medium, and difficult problems on every subtopic. It is a collection of more than 300 Adaptive Physics Problems for IIT JEE Mains and JEE Advanced, NEET, CBSE, Boards, NCERT, Book, AP Physics, SAT Physics, Olympiad, Level questions. Key Features of this book: Sub topic wise Questions with detailed Solutions. Each Topic has Level 1, Level 2 Questions. Chapter wise Test with Level 1, Level 2 Difficulty. NCERT BOARD Level Questions for Practice. Previous Year Questions JEE Mains, Previous Year Questions JEE Advanced, Previous Year Questions NEET, CBSE. More than 300 Questions from Each Chapter. About Author: Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years. He has mentored over ten thousand students and continues mentoring in regular classroom coaching. The students from his class have made into IIT institutions including ranks in top 100. The main goal of this book is to enhance problem solving ability in students. Sir is having hope that you would enjoy this journey of learning physics. In case of query, visit www.physicsfactor.com or whatsapp to our customer care number 91 7618717227.

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Six-Level Edition Level 1 Teacher's Resource Book with Testbuilder CD-ROM/Audio CD Hannah Cassidy, Cheryl Pelteret, Julie Penn, 2011-08-04 American MORE Six Level Edition is a version of a course from a highly respected author team that's bursting with features for lower secondary students. Each level of American MORE contains 50-60 hours of class material. With dedicated reading, culture, grammar, vocabulary skills, and cross-curricular learning sections, plus a wide range of flexible components, you really do get more with American MORE. The Teacher's Resource Book contains detailed guidance on how to get the best out of the course, warm-up activities, photocopiable grammar and communication resources, tests, and answer keys, and Extra idea sections for fast finishers. The test material is contained on the Testbuilder CD-ROM together with the audio for the tests.

Meta-Quanta Michael W. Allen, 2023-03-31 Instantaneous quantum entanglements, Einstein's spooky actions in the dark, have been a controversial subject in physics for over 100 years. Human consciousness is an integral part of this phenomenon. Physics cannot ignore entanglement or human consciousness but has yet to find a way to explain these realities in a cogent manner. Meta-Quanta is a thought experiment seeking to address these concerns. The enigma of human consciousness within entanglement, together with quantum theory and relativity, when observed from a state absent time, gives agency to imagining a viable reality to the conundrum of instantaneous entanglement as seemingly unbounded by the speed of light. This perspective also enables mega-macroscopic strands of time demonstrating mirror symmetry to the ultra-microscopic superstrings of physics. This thought experiment does not suggest that the myriad questions of millennia have been answered. This is but another what-if experimental moment, a point of observation empowering freedom of thought, absent traditional boundaries. Engaging our universe from this perspective envisions the intrinsic relationship between philosophy, physics, psychology, dream theory, within psychology and theology, opening new dimensions of ideation in the continuing intellectual struggle to answer humanity's eternal questions regarding what we are, where we came from, and why we are here.

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Teaching and Learning in the Science Laboratory

Dimitris Psillos, H. Niedderer, 2006-05-05 Scope of the book There is an on going debate regarding the role of labwork in science education which dates back several decades and which illustrates the conviction and interest of teachers researchers and policy makers world wide in the value of laboratory work for understanding science This is evident in more recent books and studies regarding the laboratory which mainly refer to countries with a considerable tradition in practical work in science education Woolnough Alsop 1985 Hodson 1993 Hegarthy Hazel 1990 Wellington 2000 Yet in discussing research studies on labwork several authors express their concern about its effectiveness in facilitating students understanding of various aspects of scientific inquiry They point out a comprehensive re conceptualisation of the aims of labwork and as a consequence of investigating what the students actually learn in different contexts Lazarowitz Tamir 1994 Tobin Tippins 1993 Lunetta 1998 It has also been argued that the relationship between instructional activities and student learning in labwork needs more attention than it has been given in science education research Leach Paulsen 1999 It appears that the case for research based labwork emerges in several quarters in science education particularly among researchers This book presents and discusses a variety of laboratory practices and their effectiveness The studies take into account recent theoretical developments and empirical results concerning students understanding of scientific inquiry A whole chapter is devoted to technological advances offering new learning opportunities for the students and teaching facilities for the teacher

Children's Thinking Robert Siegler, 2013-10-28 First published in 1978 In 1963 John Flavell posed one of the truly basic questions underlying the study of children s thinking his question was simply What develops This volume holds the papers from the 13th Annual Carnegie Cognition Symposium held in May 1977 that considering what progress had been made toward answering this question in the past 15 years

The Signs of the Times Ryszard Bobrowicz, Emil Hilton Saggau, Jonas Otterbeck, 2025-08-15 This book delves into the dynamic interplay of popular culture and political theology examining three key areas of interaction engagement with liturgy and scripture film and television and music From depictions of Jesus in South Park and Family Guy to Beyonc s Lemonade from cinematic scandals to portrayals of atheists and holy fools in film from Islamic pop music to Bible themed cookbooks and church yoga practices this book explores how religious individuals and communities incorporate popular culture into their political theologies across diverse sets of beliefs and practices In this way the book heralds a renewed focus on popular culture s theological potential and its impact on the collective imagination This volume will captivate researchers in theology religious studies cultural studies media studies and sociology of religion as well as general readers intrigued by religious themes in contemporary culture

Professional Development for Inquiry-Based Science Teaching and Learning Olia E. Tsivitanidou, Peter Gray, Eliza Rybska, Loucas Louca, Costas P. Constantinou, 2018-09-03 This book examines the implementation of inquiry based approaches in science teaching and learning It explores the ways that those approaches could be promoted across various contexts in Europe through initial teacher preparation induction programmes and professional development activities It illustrates connections

between scientific knowledge deriving from the science education research community teaching practices deriving from the science teachers community and educational innovation Inquiry Based Science Teaching and Learning IBST L has been promoted as a policy response to pressing educational challenges including disengagement from science learning and the need for citizens to be in a position to evaluate evidence on pressing socio scientific issues Effective IBST L requires well prepared and skilful teachers who can act as facilitators of student learning and who are able to adapt inquiry based activity sequences to their everyday teaching practice Teachers also need to engage creatively with the process of nurturing student abilities and to acquire new assessment competences The task of preparing teachers for IBST L is a challenging one This book is a resource for the implementation of inquiry oriented approaches in science education and illustrates ways of promoting IBST L through initial teacher preparation induction and professional development programmes

Making Thought Visible Curt Hersey, Julie D. O'Reilly, 2025-07-18 For viewers who experience autism bipolar disorder depression obsessive compulsive disorder or other cognitive variations television storytelling offers opportunities to empathize with characters portraying neurodiversity In this first collection of its kind contributors analyze television s increasing attempts to make thought how individuals process the world around them visible Examined themes include the muting of neurodiverse voices madness as power diagnosis vs lived experience dual diagnosis reactions to atypical behaviors the cultivation of attitudes towards autistic individuals and translanguaging across global series Programs include Young Sheldon The Good Doctor Legion the Star Trek universe Euphoria True Detective Girls Bungo Stray Dogs and Love on the Spectrum Varied theoretical and methodological approaches and attention to the quality and verisimilitude of neurodiverse representations result in an appropriately complex analysis

Competition Science Vision ,1998-07 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue

Education Manitoba ,1981 *Loving Science - but Not the Empire* Jay Sonstroem, 2023-02-27 For decades the world has been telling us that God is dead and science has proven it but is that really true As the evidence has continued to accumulate the tide has turned God is back to full health and not only that but He is far more awesome and ingenious than we ever imagined Now it is the scientific establishment that is on the ropes as a century of errors and deception has been unearthed In *Loving Science But Not the Empire* experimental scientist Jay Sonstroem helps readers discern between the findings of real science and fables which have been pushed by an entity he calls The Empire Jay provides short readable chapters to reveal both the wonders of creation and the schemes and

blunders of The Empire which have resulted from its hijacked version of science Topics include the hidden truth of DNA the wonders of biology the fine tuning of the universe and evolution and Darwinism debunked Is it possible to love science but not worship it You bet Does a person who believes in God have to give up Reason No Come along and piece together the puzzle of life the universe and everything in between What you believe about your origins has everything to do with what you believe about your destiny Follow the light find the Truth and together let s free science from a Godless agenda

Understanding Teaching and Learning Baljit Kaur,2012-12-17 How do children individually and collectively make meanings of their learning experiences How can teachers become aware of children s meaning making on an ongoing basis Is it possible and useful to create an integrated theory of student learning How can classroom research enhance critical understandings of the situated nature of learning and teaching while taking into account the systemic and educational policy contexts How do differences such as class race culture gender and sexualities interact with student learning How can teachers respond effectively to the realities of today s diverse classrooms What are the current and emerging issues in classroom research These are just some of the questions this book grapples with It pays tribute to Professor Graham Nuthall s 1935 2004 research contributions a pioneering and internationally renowned classroom researcher of teaching and learning from New Zealand It has been written by emerging and experienced classroom researchers from several countries as part of a project aimed at building on and extending Nuthall s research and promoting the conducting teaching and supervision of classroom research The authors engage critically with theoretical methodological and pedagogical possibilities of their research using Nuthall s work as a springboard As a result all authors make links between theory and practice Further several leading international researchers contribute comments on future directions for classroom research and its relevance for teaching and learning *Understanding teaching and Learning Classroom Research Revisited* would be of interest to practicing or prospective teachers and teacher educators as well as scholars and students of teaching and learning

The Alchemy of Becoming Diane Fulford,Karen Diguier,2021-02-10 The purpose of this book is to raise your level of consciousness through a process that is based on alchemy the ancient science of transforming something from the ordinary to the extraordinary The step by step process while adhering to the precise sequencing of alchemy allows for a deeply personalized experience No two people will experience the path to higher consciousness in the same way What is unique about this book is that it brings together the works of many brilliant minds of our time spiritualists quantum physicists biologists cosmologists and mathematicians into a cohesive and ordered methodology You unleash the power and wisdom held within to be true and sovereign and in so doing create a life of meaning vitality and profound inner peace It is a lifelong journey of ever deepening exploration and understanding to becoming the person you were always meant to be

Principles of Physics David Halliday,Jearl Walker,Robert Resnick,2023 Renowned for its interactive focus on conceptual understanding Halliday and Resnick s *Principles of Physics* 12th edition is an industry leading resource in physics

teaching with expansive insightful and accessible treatments of a wide variety of subjects Focusing on several contemporary areas of research and a wide array of tools that support students active learning this book guides students through the process of learning how to effectively read scientific material identify fundamental concepts reason through scientific questions and solve quantitative problems This International Adaptation of the twelfth edition is built to be a learning center with practice opportunities simulations and videos Numerous practice and assessment questions are available to ensure that students understand the problem solving processes behind key concepts and understand their mistakes while working through problems

International Handbook of Research on Conceptual Change Stella Vosniadou,2009-05-07 The study of conceptual change traces its heritage to the notions of paradigm networks of shared beliefs concepts practices and paradigm shift made famous by Thomas Kuhn in his book The Structure of Scientific Revolutions Kuhn s work was quickly linked to developmental psychology how knowledge develops and to science education teaching big new ideas This book is the first comprehensive review of the conceptual change movement and of the impressive research it has spawned on how knowledge develops and can be taught in different content areas Because of its interdisciplinary focus chapter authors were instructed to write in a manner comprehensible to researchers and students from different fields The International Handbook of Research on Conceptual Change consists of twenty seven chapters that clarify the nature of conceptual change research describes its most important findings and demonstrates their importance for education It is organized into six sections that include detailed discussions of key theoretical and methodological issues the roots of conceptual change research in the philosophy and history of science mechanisms of conceptual change and learner characteristics It also contains chapters that describe conceptual change research in the content areas such as physics astronomy biology medicine and health and history A particular focus is given to students difficulties in learning more advanced and counter intuitive concepts

Finding Lost — Season Four Nikki Stafford,2009-04-01 Presents an analysis of every episode of season four along with author biographies trivia and chapters devoted to such topics as time travel Jeremy Bentham and the Lost mobisodes

Westworld and Philosophy James B. South, Kimberly S. Engels,2018-04-03 We can t define consciousness because consciousness does not exist Humans fancy that there s something special about the way we perceive the world and yet we live in loops as tight and as closed as the hosts do seldom questioning our choices content for the most part to be told what to do next Dr Robert Ford Westworld Have you ever questioned the nature of your reality HBO s Westworld a high concept cerebral television series which explores the emergence of artificial consciousness at a futuristic amusement park raises numerous questions about the nature of consciousness and its bearing on the divide between authentic and artificial life Are our choices our own What is the relationship between the mind and the body Why do violent delights have violent ends Could machines ever have the moral edge over man Does consciousness create humanity or humanity consciousness In Westworld and Philosophy philosophers filmmakers scientists activists and ethicists ask the questions you re not supposed to ask and suggest the

answers you're not supposed to know. There's a deeper level to this game and this book charts a course through the maze of the mind, examining how we think about humans, hosts, and the world around us on a journey toward self-actualization. Essays explore different facets of the show's philosophical puzzles, including the nature of autonomy as well as the pursuit of liberation and free thought while levying a critical eye at the human example as Westworld's hosts ascend to their apotheosis in a world scarred and defined by violent acts. The perfect companion for Westworld fans who want to exit the park and bend their minds around the philosophy behind the scenes, *Westworld and Philosophy* will enrich the experience of the show for its viewers and shed new light on its enigmatic twists and turns.

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