

Roller Coaster Physics Gizmo Answer Sheet

The magazine that helps career moms balance their personal and professional lives. Adam Steltzner is no ordinary engineer. His path to leadership was about as unlikely as they come. A child of beatnik parents, he barely made it through school. He blew off college in favour of work at a health food store and playing bass in a band, but after discovering an astonishing gift for maths and physics, he ended up helping a group of scientists land the heaviest rover in the history of space exploration on Mars. This is the story of the teamwork, drama and extraordinary feats of innovation at the Jet Propulsion Lab that culminated in that landing in 2012.

Describes man's exploration of the nature of and usage of electricity, from ancient Greece to the present.

With the view that children are capable young scientists, authors encourage science teaching in ways that nurture students' curiosity about how the natural world works including research-based approaches to support all K-5 children constructing scientific explanations via talk and writing. Grounded in NSF-funded research, this book/DVD provides K-5 teachers with a framework for explanation (Claim, Evidence, Reasoning) that they can use to organize everything from planning to instructional strategies and from scaffolds to assessment. Because the framework addresses not only having students learn scientific explanations but also construct them from evidence and evaluate them, it is considered to build upon the new NRC framework for K-12 science education, the national standards, and reform documents in science education, as well as national standards in literacy around argumentation and persuasion, including the Common Core Standards for English Language Arts (Common Core State Standards Initiative, 2010). The chapters guide teachers step by step through presenting the framework for students, identifying opportunities to incorporate scientific explanation into lessons, providing curricular scaffolds (that fade over time) to support all students including ELLs and students with special needs, developing scientific explanation assessment tasks, and using the information from assessment tasks to inform instruction.

The explosive story of America's secret post-WWII science programs, from the author of the New York Times bestseller Area 51 In the chaos following World War II, the U.S. government faced many difficult decisions, including what to do with the Third Reich's scientific minds. These were the brains behind the Nazis' once-indomitable war machine. So began Operation Paperclip, a decades-long, covert project to bring Hitler's scientists and their families to the United States. Many of these men were accused of war crimes, and others had stood trial at Nuremberg; one was convicted of mass murder and slavery. They were also directly responsible for major advances in rocketry, medical treatments, and the U.S. space program. Was Operation Paperclip a moral outrage, or did it help America win the Cold War? Drawing on exclusive interviews with dozens of Paperclip family members, colleagues, and interrogators, and with access to German archival documents (including previously unseen papers made available by direct descendants of the Third Reich's ranking members), files obtained through the Freedom of Information Act, and dossiers discovered in government archives and at Harvard University, Annie Jacobsen follows more than a dozen German scientists through their postwar lives and into a startling, complex, nefarious, and jealously

guarded government secret of the twentieth century. In this definitive, controversial look at one of America's most strategic, and disturbing, government programs, Jacobsen shows just how dark government can get in the name of national security.

LEARNING AND BEHAVIOR, Seventh Edition, is stimulating and filled with high-interest queries and examples. Based on the theme that learning is a biological mechanism that aids survival, this book embraces a scientific approach to behavior but is written in clear, engaging, and easy-to-understand language. Available with InfoTrac Student Collections <http://gocengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

"As scholarly as [it] is . . . this book about education happens to double as an optimistic, even thrilling, summer read." —The New York Times A brilliant combination of science and its real-world application, *Now You See It* sheds light on one of the greatest problems of our historical moment: our schools and businesses are designed for the last century, not for a world in which technology has reshaped the way we think and learn. In this informed and optimistic work, Cathy N. Davidson takes us on a tour of the future of work and education, introducing us to visionaries whose groundbreaking ideas will soon affect every arena of our lives, from schools with curriculums built around video games to workplaces that use virtual environments to train employees.

This problem book is ideal for high-school and college students in search of practice problems with detailed solutions. All of the standard introductory topics in mechanics are covered: kinematics, Newton's laws, energy, momentum, angular momentum, oscillations, gravity, and fictitious forces. The introduction to each chapter provides an overview of the relevant concepts. Students can then warm up with a series of multiple-choice questions before diving into the free-response problems which constitute the bulk of the book. The first few problems in each chapter are derivations of key results/theorems that are useful when solving other problems. While the book is calculus-based, it can also easily be used in algebra-based courses. The problems that require calculus (only a sixth of the total number) are listed in an appendix, allowing students to steer clear of those if they wish. Additional details: (1) Features 150 multiple-choice questions and nearly 250 free-response problems, all with detailed solutions. (2) Includes 350 figures to help students visualize important concepts. (3) Builds on solutions by frequently including extensions/variations and additional remarks. (4) Begins with a chapter devoted to problem-solving strategies in physics. (5) A valuable supplement to the assigned textbook in any introductory mechanics course.

There is a distinct hint of Armageddon in the air. According to The Nice and Accurate Prophecies of Agnes Nutter, Witch (recorded, thankfully, in 1655, before she blew up her entire village and all its inhabitants, who had gathered to watch her burn), the world will end on a Saturday. Next Saturday, in fact. So the armies of Good and Evil are amassing, the Four Bikers of the Apocalypse are revving up their mighty hogs and hitting the road, and the world's last two remaining witch-finders are getting ready to fight the good fight, armed with awkwardly antiquated instructions and stick pins. Atlantis is rising, frogs are

falling, tempers are flaring. . . . Right. Everything appears to be going according to Divine Plan. Except that a somewhat fussy angel and a fast-living demon -- each of whom has lived among Earth's mortals for many millennia and has grown rather fond of the lifestyle -- are not particularly looking forward to the coming Rapture. If Crowley and Aziraphale are going to stop it from happening, they've got to find and kill the Antichrist (which is a shame, as he's a really nice kid). There's just one glitch: someone seems to have misplaced him. . . . First published in 1990, Neil Gaiman and Terry Pratchett's brilliantly dark and screamingly funny take on humankind's final judgment is back -- and just in time -- in a new hardcover edition (which includes an introduction by the authors, comments by each about the other, and answers to some still-burning questions about their wildly popular collaborative effort) that the devout and the damned alike will surely cherish until the end of all things.

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

VOLUME I Unit 1: Mechanics
Chapter 1: Units and Measurement Chapter 2: Vectors Chapter 3: Motion Along a Straight Line Chapter 4: Motion in Two and Three Dimensions Chapter 5: Newton's Laws of Motion Chapter 6: Applications of Newton's Laws Chapter 7: Work and Kinetic Energy Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Linear Momentum and Collisions Chapter 10: Fixed-Axis Rotation Chapter 11: Angular Momentum Chapter 12: Static Equilibrium and Elasticity Chapter 13: Gravitation Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound

Amy's life has drastically changed. She's found herself taking on the huge responsibility of running Heartland, the horse refuge that was her mother's life work. The one constant for Amy has been her friendship with Ty, Heartland's

17-year-old stable hand. But the arrival of a new hand, Ben, throws everything off balance. By the time Amy realizes she's taken Ty for granted, it could be too late.

Improvise compasses and quadrants to track the sun and moon across a graph paper sky. Cover a tennis ball in a beautiful earth wrapper, then tilt it towards a tennis-ball sun to comprehend seasons. Wrap a Ping-Pong ball halfway in black tape to model moon phases that wax and wane. Fathom heavenly motions indoors and out!

The definitive guide to demystifying the venture capital business *The Business of Venture Capital, Second Edition* covers the entire spectrum of this field, from raising funds and structuring investments to assessing exit pathways. Written by a practitioner for practitioners, the book provides the necessary breadth and depth, simplifies the jargon, and balances the analytical logic with experiential wisdom. Starting with a Foreword by Mark Heesen, President, National Venture Capital Association (NVCA), this important guide includes insights and perspectives from leading experts. Covers the process of raising the venture fund, including identifying and assessing the Limited Partner universe; fund due-diligence criteria; and fund investment terms in Part One Discusses the investment process, including sourcing investment opportunities; conducting due diligence and negotiating investment terms; adding value as a board member; and exploring exit pathways in Part Two Offers insights, anecdotes, and wisdom from the experiences of best-in-class practitioners Includes interviews conducted by Leading Limited Partners/Fund-of-Funds with Credit Suisse, Top Tier Capital Partners, Grove Street Advisors, Rho Capital, Pension Fund Managers, and Family Office Managers Features the insights of over twenty-five leading venture capital practitioners, frequently featured on Forbes' Midas List of top venture capitalists Those aspiring to raise a fund, pursue a career in venture capital, or simply understand the art of investing can benefit from *The Business of Venture Capital, Second Edition*. The companion website offers various tools such as GP Fund Due Diligence Checklist, Investment Due Diligence Checklist, and more, as well as external links to industry white papers and other industry guidelines.

This text blends traditional introductory physics topics with an emphasis on human applications and an expanded coverage of modern physics topics, such as the existence of atoms and the conversion of mass into energy. Topical coverage is combined with the author's lively, conversational writing style, innovative features, the direct and clear manner of presentation, and the emphasis on problem solving and practical applications.

Explores the forms energy takes, including heat and the electromagnetic spectrum, discusses how energy is transferred between objects and forms, and describes the properties of the different types of energy.

Spanning eight decades and chronicling the wild ride of a Greek-American family through the vicissitudes of the twentieth century, Jeffrey Eugenides' witty, exuberant novel on one level tells a traditional story about three generations of a

fantastic, absurd, lovable immigrant family -- blessed and cursed with generous doses of tragedy and high comedy. But there's a provocative twist. Cal, the narrator -- also Callie -- is a hermaphrodite. And the explanation for this takes us spooling back in time, through a breathtaking review of the twentieth century, to 1922, when the Turks sacked Smyrna and Callie's grandparents fled for their lives. Back to a tiny village in Asia Minor where two lovers, and one rare genetic mutation, set our narrator's life in motion. Middlesex is a grand, utterly original fable of crossed bloodlines, the intricacies of gender, and the deep, untidy promptings of desire. It's a brilliant exploration of divided people, divided families, divided cities and nations -- the connected halves that make up ourselves and our world.

A barely alive colonist arrives at the airlock at colony one, but soon dies before he can talk. Mysteriously, a DNA test identifies him as a colonist who has already died-several years earlier. The only place he could have come from is the mine on the far side of the Jezero crater-Colony Two, and if so, then maybe others are still alive.

In Cory Doctorow's wildly successful *Little Brother*, young Marcus Yallow was arbitrarily detained and brutalized by the government in the wake of a terrorist attack on San Francisco—an experience that led him to become a leader of the whole movement of technologically clued-in teenagers, fighting back against the tyrannical security state. A few years later, California's economy collapses, but Marcus's hacktivist past lands him a job as webmaster for a crusading politician who promises reform. Soon his former nemesis Masha emerges from the political underground to gift him with a thumbdrive containing a Wikileaks-style cable-dump of hard evidence of corporate and governmental perfidy. It's incendiary stuff—and if Masha goes missing, Marcus is supposed to release it to the world. Then Marcus sees Masha being kidnapped by the same government agents who detained and tortured Marcus years earlier. Marcus can leak the archive Masha gave him—but he can't admit to being the leaker, because that will cost his employer the election. He's surrounded by friends who remember what he did a few years ago and regard him as a hacker hero. He can't even attend a demonstration without being dragged onstage and handed a mike. He's not at all sure that just dumping the archive onto the Internet, before he's gone through its millions of words, is the right thing to do. Meanwhile, people are beginning to shadow him, people who look like they're used to inflicting pain until they get the answers they want. Fast-moving, passionate, and as current as next week, *Homeland* is every bit the equal of *Little Brother*—a paean to activism, to courage, to the drive to make the world a better place. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Working Mother

Describes the different types of power found in nature, including photosynthesis, fossil fuels, and momentum.

Astronomy is written in clear non-technical language, with the occasional touch of

humor and a wide range of clarifying illustrations. It has many analogies drawn from everyday life to help non-science majors appreciate, on their own terms, what our modern exploration of the universe is revealing. The book can be used for either a one-semester or two-semester introductory course (bear in mind, you can customize your version and include only those chapters or sections you will be teaching.) It is made available free of charge in electronic form (and low cost in printed form) to students around the world. If you have ever thrown up your hands in despair over the spiraling cost of astronomy textbooks, you owe your students a good look at this one. Coverage and Scope Astronomy was written, updated, and reviewed by a broad range of astronomers and astronomy educators in a strong community effort. It is designed to meet scope and sequence requirements of introductory astronomy courses nationwide. Chapter 1: Science and the Universe: A Brief Tour Chapter 2: Observing the Sky: The Birth of Astronomy Chapter 3: Orbits and Gravity Chapter 4: Earth, Moon, and Sky Chapter 5: Radiation and Spectra Chapter 6: Astronomical Instruments Chapter 7: Other Worlds: An Introduction to the Solar System Chapter 8: Earth as a Planet Chapter 9: Cratered Worlds Chapter 10: Earthlike Planets: Venus and Mars Chapter 11: The Giant Planets Chapter 12: Rings, Moons, and Pluto Chapter 13: Comets and Asteroids: Debris of the Solar System Chapter 14: Cosmic Samples and the Origin of the Solar System Chapter 15: The Sun: A Garden-Variety Star Chapter 16: The Sun: A Nuclear Powerhouse Chapter 17: Analyzing Starlight Chapter 18: The Stars: A Celestial Census Chapter 19: Celestial Distances Chapter 20: Between the Stars: Gas and Dust in Space Chapter 21: The Birth of Stars and the Discovery of Planets outside the Solar System Chapter 22: Stars from Adolescence to Old Age Chapter 23: The Death of Stars Chapter 24: Black Holes and Curved Spacetime Chapter 25: The Milky Way Galaxy Chapter 26: Galaxies Chapter 27: Active Galaxies, Quasars, and Supermassive Black Holes Chapter 28: The Evolution and Distribution of Galaxies Chapter 29: The Big Bang Chapter 30: Life in the Universe Appendix A: How to Study for Your Introductory Astronomy Course Appendix B: Astronomy Websites, Pictures, and Apps Appendix C: Scientific Notation Appendix D: Units Used in Science Appendix E: Some Useful Constants for Astronomy Appendix F: Physical and Orbital Data for the Planets Appendix G: Selected Moons of the Planets Appendix H: Upcoming Total Eclipses Appendix I: The Nearest Stars, Brown Dwarfs, and White Dwarfs Appendix J: The Brightest Twenty Stars Appendix K: The Chemical Elements Appendix L: The Constellations Appendix M: Star Charts and Sky Event Resources

As public education declined and many Americans despaired of their children's future, Pulitzer Prize-winning journalist Jonathan Freedman volunteered as a writing mentor in some of California's toughest innercity schools. He discovered a program called AVID that gave him hope. In this work of creative non-fiction, Mr. Freedman interweaves the lives of AVID's founder, Mary Catherine Swanson, and six of her original AVID students over a 20-year period, from 1980 to 2000.

With powerful personalities, explosive conflicts, and compelling action, *Wall of Fame* portrays the dramatic story of how one teacher in one classroom created a pragmatic program that has propelled thousands of students to college. This story of determination, courage, and hope inspires a new generation of teachers, students, and parents to fight for change from the bottom up.

Capturing an engineer's creative vision and mind for detail, this fully illustrated picture book biography sheds light on how the American inventor George Ferris defied gravity and seemingly impossible odds to invent the world's most iconic amusement park attraction, the Ferris wheel. A fun, fact-filled text by Kathryn Gibbs Davis combines with Gilbert Ford's dazzling full-color illustrations to transport readers to the 1893 World's Fair, where George Ferris and his big, wonderful wheel lifted passengers to the skies for the first time.

How can you consistently pull off hands-on tinkering with kids? How do you deal with questions that you can't answer? How do you know if tinkering kids are learning anything or not? Is there a line between fooling around with real stuff and learning? The idea of learning through tinkering is not so radical. From the dawn of time, whenever humanity has wanted to know more, we have achieved it most effectively by getting our hands dirty and making careful observations of real stuff. *Make: Tinkering (Kids Learn by Making Stuff)* lets you discover how, why--and even what it is--to tinker and tinker well. Author Curt Gabrielson draws on more than 20 years of experience doing hands-on science to facilitate tinkering: learning science while fooling around with real things. This book shows you how to make: A drum set from plastic bottles, tape, and shrink-wrap
Magnetic toys that dance, sway, and amaze
Catapults, ball launchers, and table-top basketball
A battery-powered magic wand and a steadiness game (don't touch the sides!)
Chemical reactions with household items
Models of bones and tendons that work like real arms and ankles
Spin art machine and a hovercraft from a paper plate!
Lifelong learners hungry for their next genuine experience
Twelve people set aside their fears and ride a roller coaster, including one who has never done so before.

Turn yourself into a top-notch engineering student and become a successful engineer with the ideas and information in this one-of-a-kind resource. Get yourself on the path to a challenging, rewarding, and prosperous career as an engineer by getting inside each discipline, learning the differences and making educated choices. Updated and now covering 30 different branches of engineering, *"Is There an Engineer Inside You?"* is packed with suggestions and has tremendous advice on thriving in an engineering student environment.

ENERGY: ITS USE AND THE ENVIRONMENT, Fifth Edition, emphasizes the physical principles behind energy and its effects on our environment. The text explains the basic physical principles behind the use of energy, including the study of mechanics, electricity and magnetism, thermodynamics, and atomic and nuclear physics. It also covers crucial environmental questions that currently are receiving much public attention, such as global warming, radioactive waste,

municipal solid waste, and nuclear energy production materials. The text can be used in physics, technology, physical science, and environmental science courses for non-science majors. Many of the standard topics found in introductory physics textbooks are included. As a result, this book can be used as the text in a conceptual physics course with energy as the central theme. No math or other science prerequisite is necessary. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Laboratory experiences as a part of most U.S. high school science curricula have been taken for granted for decades, but they have rarely been carefully examined. What do they contribute to science learning? What can they contribute to science learning? What is the current status of labs in our nation's high schools as a context for learning science? This book looks at a range of questions about how laboratory experiences fit into U.S. high schools: What is effective laboratory teaching? What does research tell us about learning in high school science labs? How should student learning in laboratory experiences be assessed? Do all students have access to laboratory experiences? What changes need to be made to improve laboratory experiences for high school students? How can school organization contribute to effective laboratory teaching? With increased attention to the U.S. education system and student outcomes, no part of the high school curriculum should escape scrutiny. This timely book investigates factors that influence a high school laboratory experience, looking closely at what currently takes place and what the goals of those experiences are and should be. Science educators, school administrators, policy makers, and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished.

EXPAND YOUR VOCABULARY--FOR BETTER TEST SCORES AND BETTER COMMUNICATION You probably can't learn all the hundreds of thousands of words in the English language--but you can learn those difficult words you're most likely to need to know. If you want to increase your vocabulary for standardized tests or just better communication, Webster's New World Essential Vocabulary is the only tool you need. It presents essential words with definitions, example sentences, synonyms, and tense forms. In addition to the most frequently tested terms from the SAT and GRE tests, Webster's New World Essential Vocabulary also includes helpful appendices on foreign phrases, prefixes, and suffixes. Together, these 1,500 words and definitions not only prepare you for tough tests, but also dramatically improve your communication skills for the business world or studying English as a second language. Whether you're worried about college entrance exams or just want to be better with words, this practical, helpful resource gives you the tools you need to read, speak, and write more persuasively, and communicate more effectively. Plus, Handy self-tests let you gauge your understanding of words and meaning, so you can

measure your progress as you go!

In *Science Myths Unmasked Volume 2*, David Rudel continues to expose common errors in science education. This sequel takes the discussion into the realm of physical science, rectifying commonly taught misconceptions about topics covered in chemistry and physics courses, including combustion, simple machines, states of matter, phase changes, electricity, and light. Rudel's accessible style makes *Science Myths Unmasked* a worthwhile read for life-long learners and a great gift for bright high school students interested in all the myths they have been taught by inaccurate textbooks. State-adopted textbooks perpetrate (and perpetuate) a shocking degree of misinformation, largely because they are less interested in conveying accurate science than in training students to bubble in the right oval on multiple-choice, standardized tests. Rudel provides thorough background for each topic, empowering science teachers to sculpt the material to match the needs of their students. Numerous illustrations and suggested experiments complement the coverage, portraying precisely why many standard explanations are false and how we can better fulfill our obligation to provide genuine science to middle school and high school students.

"In May 2000 I was fired from my job as a reporter on a finance newsletter because of an obsession with a video game. It was the best thing that ever happened to me." So begins this story of personal redemption through the unlikely medium of electronic games. *Quake*, *World of Warcraft*, *Eve Online*, and other online games not only offered author Jim Rossignol an excellent escape from the tedium of office life. They also provided him with a diverse global community and a job—as a games journalist. Part personal history, part travel narrative, part philosophical reflection on the meaning of play, *This Gaming Life* describes Rossignol's encounters in three cities: London, Seoul, and Reykjavik. From his days as a *Quake* genius in London's increasingly corporate gaming culture; to Korea, where gaming is a high-stakes televised national sport; to Iceland, the home of his ultimate obsession, the idiosyncratic and beguiling *Eve Online*, Rossignol introduces us to a vivid and largely undocumented world of gaming lives. Torn between unabashed optimism about the future of games and lingering doubts about whether they are just a waste of time, *This Gaming Life* also raises important questions about this new and vital cultural form. Should we celebrate the "serious" educational, social, and cultural value of games, as academics and journalists are beginning to do? Or do these high-minded justifications simply perpetuate the stereotype of games as a lesser form of fun? In this beautifully written, richly detailed, and inspiring book, Rossignol brings these abstract questions to life, immersing us in a vibrant landscape of gaming experiences. "We need more writers like Jim Rossignol, writers who are intimately familiar with gaming, conversant in the latest research surrounding games, and able to write cogently and interestingly about the experience of playing as well as the deeper significance of games." —Chris Baker, *Wired* "*This Gaming Life* is a fascinating and eye-opening look into the real human impact of

gaming culture. Traveling the globe and drawing anecdotes from many walks of life, Rossignol takes us beyond the media hype and into the lives of real people whose lives have been changed by gaming. The results may surprise you.”

—Raph Koster, game designer and author of *A Theory of Fun for Game Design*
“Is obsessive video gaming a character flaw? In *This Gaming Life*, Jim Rossignol answers with an emphatic ‘no,’ and offers a passionate and engaging defense of what is too often considered a ‘bad habit’ or ‘guilty pleasure.’” —Joshua Davis, author of *The Underdog*
“This is a wonderfully literate look at gaming cultures, which you don't have to be a gamer to enjoy. The Korea section blew my mind.” —John Seabrook, *New Yorker* staff writer and author of *Flash of Genius and Other True Stories of Invention*
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KwangBin Baek

Text for the new Queensland Senior Physics syllabus. Provides examples, questions, investigations and discussion topics. Designed to be gender balanced, with an emphasis on library and internet research. Includes answers, a glossary and an index. An associated internet web page gives on-line worked solutions to questions and additional resource material. The authors are experienced physics teachers and members of the Physics Syllabus Sub-Committee of the Queensland BSSSS.

An original, endlessly thought-provoking, and controversial look at the nature of consciousness and identity argues that the key to understanding selves and consciousness is the "strange loop," a special kind of abstract feedback loop inhabiting our brains.

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