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Teaching Abby John Wiley & Sons

Spanning more than two centuries in Ireland, *Castle on the Rise* unites the legacy of three women who must risk mending their broken places for life, love, and the belief that even through the depths of our pain, a masterpiece of a story can emerge. When Laine Forrester travels overseas to attend her best friend's vineyard wedding, she expects to find the bride on the brink of a fairy-tale life. But after a series of unforeseen setbacks, it seems the storybook lives they'd imagined are suddenly ripping apart. With hopes of resurrecting a happy ending, Laine agrees to accompany the newlyweds to the groom's home in Ireland—never expecting she'd be the one drawn in by its wide-open moors, backroads bordering the Irish Sea, and a mysterious castle that dares to keep its secrets hidden. From the storied streets of Dublin to the shores of the Emerald Isle, Laine is drawn in to the land and its rich history. The castle ruins whisper stories of Issy—a photojournalist battling through the 1916 Easter Rising, and Maeve—the castle's lady of legend, fighting for survival through the 1798 rebellion that started it all. Praise for *Castle on the Rise*: "Enchanting and mesmerizing!" —PATTI CALLAHAN, New York Times bestselling author of *Becoming Mrs. Lewis* "Castle on the Rise perfectly showcases rising star Kristy Cambron's amazing talent! Perfect pacing, lovely prose, and an intricate plot blend together in a delightful novel I couldn't put down.

Highly recommended!" —Colleen Coble, USA TODAY bestselling author of *Secrets at Cedar Cabin* and the *Rock Harbor* series "Cambron's latest is one of her best. Gripping and epic, this intricately woven tale of three generations seeking truth and justice will stay with you long after the last page." —Rachel Hauck, New York Times bestselling author *Second in the Lost Castle* series (*The Lost Castle*, *Castle on the Rise*, *The Painted Castle*) Can be read as a stand-alone, but best if read in order Sweet romance set in three time periods: present day, World War I/Easter Rising, and late 1700s Full-length novel (over 110,000 words)

[Illustrated Encyclopedia of Applied and Engineering Physics](#) Cambridge International Science Publishing Throughout history mankind has used different materials and multiple mechanisms in the design, construction and operation of machines that speed and automate the processing of information and calculations. In the past, the first models were manual, these date back when the Egyptians invented a device that consisted of a number of areas crossed by rods; This artifact was changed and perfected by the Chinese; and later in the 13th century D. C. It is when the classic form that we know; the abacus, which is composed of 10 lines with 7 fields each, a line cut all lines into two parts a bigger that the other, placing 2 spheres at the top and five in the bottom. Much later, mechanical and electrical models were developed, so that, Blaise Pascal, in 1649, manufactured the PASCALINE, a machine that made operations of 8 digits. In 1820, Charles Babbage built two completely mechanical equipment, axles, gears and pulleys used to perform

calculations. Konraz Suze, in 1942, built the first digital computer programmable. Between 1937 and 1942 Atanasoff and Berry, built a prototype Composite tubes, capacitors and a drum from rotating the elements of memory management. In 1941, Turing built the COLLOSUS, a computer using thousands of valves, 2400 pumps of glass, and a scanner with the ability to read 5000 characters by paper tape. In 1944, IBM built the MARK I, with an average of 15 meters long and 2.40 meters high and weighed five tons. Then, the digital era started, with electronic models based initially in vacuum tubes and then transistors. The EDVAC was the first digital electronic computer, its memory consisted of lines of mercury within a glass vacuum tube, where you could store ones and zeros. The invention of the transistor influenced dramatically the evolution of computers. It was conceived in 1948, by three scientists at Bell Labs. This contains a semiconductor material that functions as a switch. In en 1958 1958 Kilby and Noycea, of the Texas Instrument, invented integrated circuits, making that computers smaller. At Intel, in 1971, Hoff developed a 4-bit microprocessor which contained transistors 23000 processing 108 kHz or 0.06 MIPS and 4 kilobytes of storage space. At the beginning of the 80's IBM started to develop personal computers with PC-DOS operating system, thus starting a new era, where computers were within the reach of everyone. Currently, laptops, tablets, and smartphones, are characterized by their small size and portability;

These computers require even smaller and smaller components. Constant miniaturization of hardware components has achieved the realization of nanocircuits. Soon it will not be possible to reduce further circuits, since the miniaturization will reach the limits where classical physics are no longer valid, then it will enter in the domains of the subatomic world, where the laws quantum mechanics have validity. The change in the fundamental components makes necessary to redefine many elements in current computers, architecture, algorithms, and hardware components. This is how quantum computing and quantum algorithms are born. The Book starts with an introduction of quantum computing, especially from an historical view. Section 1 covers a brief journey to quantum computation basis and Section 2 covers Applications and physical characteristics.

Experimental mechanics of solids and structures Arcler Press
Murray Gell-Mann, Physics Nobel Prize Laureate in 1969 is known for his theoretical work on elementary particle physics and the introduction of quarks and together with H. Fritzsch the "Quantum Chromodynamics". Based on four sections the Editor gives an overview on the work of Gell-Mann and his contributions to various aspects of the physics, related to quarks. His most important and influential papers were selected and reprinted so that the reader easily can check the original work of Gell-Mann.

Miss Julia Delivers the Goods Arcler Press

Quantum Optics offers a very wide coverage of fundamental phenomena encompassing quantum mechanics and physical optics. Quantum optics allows the engineers and scientists to perform research in laser physics and quantum optics. This book covers various topics including electromagnetic field quantization, quantum coherence theory, models of atom-field interaction, resonance fluorescence, laser theory and input-output theory (application in non-linear optics). The purpose of this book is to offer various exciting advances in the field of quantum optics. Presently, quantum optics is being applied in many applications which involve electronics, climate control, space science, medical science and industrial sectors. This book put emphasis on basic concepts and applications of quantum optics and its associated fields, so as to facilitate the students and researchers to perform their research in this amazing field. The topics of this books are

offered in a didactic and unified manner. The book exhibits a pedagogical and clear demonstration of topics. It successfully stabilizes the theoretical and quantum aspects of quantum optics with modern relevant experiments. The book is equally useful for students, scientist, teachers and industrialists from various backgrounds including quantum mechanics, optical physics, electromagnetism and many multidisciplinary fields.

Metrology: from Physics Fundamentals to Quality of Life Blackstone Publishing
Presents a new physical and mathematical theory of irreversible deformations and ductile fracture of metals that acknowledges the continuous change in the structure of materials during deformation and the accumulation of deformation damage. Plastic deformation, viscous destruction, evolution of structure, creep processes, and long-term strength of metals and stress relaxation are described in the framework of a unified approach and model. The author then expands this into a mathematical model for determining the mechanical characteristics of quasi-samples of standard mechanical properties in deformed semi-finished products.

Essentials of Biophysics CRC Press
Come home to 59 Memory Lane with a new novel from the top Kindle and USA Today bestselling author Celia Anderson!

Physics Before and After Einstein Entangled: Amara
She's running for her life. He's the safe haven she never expected to find. The holiday season is about to get HOT. Hiding out for the holiday season in the heart of the South? Not something that Haley Quick ever expected to have on her to-do list but then...she never expected her ex to want her dead, either. Turns out, life is full of surprises. Time to deal. Haley has ditched New York for a crazy little dot on the map known as Point Hope, Alabama. It's a town gone extra crazy for the holidays, and Haley is sticking out like a sore thumb with her very much Grinch-self. But enter sexy sheriff Spencer Lane...Tall, muscled, and made with an extra dose of sex appeal, he is exactly the kind of man that Haley should be avoiding. He's charming, he looks way too good in a Santa hat, and, oh, yes, he's her new landlord.

The hits just keep coming. She can't afford to let Spencer learn all of her secrets, a tough job since she is living with the man. No sex, though. It's purely a business relationship. Except...the holidays in the South sure do get HOT. Or maybe that's just sexy Spencer. Usually, Haley falls for the bad guy. It's the whole reason she's running for her life. She can't help but wonder...What would it be like to fall for a man like Spencer? He just got his Christmas wish. Sheriff Spencer Lane can't believe his luck. The most beautiful, fascinating woman he's ever seen has just dropped into his life like a gift from, well, the big guy in red. Only the problem is that Haley seems to think Spencer is some by-the-book, nice guy. Probably because of the badge. And if she wants him to be the hero, that's a role that he's happy to play for her. But the truth is, Spencer has plenty of darkness inside, too. An ex Navy SEAL, he knows how to get sh—um, stuff done. He also knows how to be very, very naughty. When danger threatens his Haley, all bets are off. No one is going to hurt her. No one is going to threaten her. Not in his town. Not on his watch. The nice guy will show Haley just how bad he can be. Fake snow, a parade of wild elves, and a stalker ex don't make for the merriest of times, but in Point Hope, anything can happen—and it usually does. Ready for a steamy story that will get you in the ho-ho-ho spirit? Settle back, curl up with Spencer, and have yourself a jolly old time.

The Bad Boy Series Collection Arcler Press
"What?" Naomi gasped. "I'm not going anywhere with you!" Alaric could already scent two more witches approaching her apartment. Whatever she'd done had clearly been an accident; he couldn't rely on her magic. They had to get out of here. She flinched as he reached down to cup her face, gazing into her eyes. "Sorry about this," he murmured, as he probed her mind. Her thoughts were frantic, moving at an impossible speed. All will be well, he told her silently. Rest now. "What—what are you—" she whispered, as her eyes drooped. She slumped forward into his arms. Cradling her, he moved over to the window, and leapt out. *** Alaric, a centuries-old vampire, lives a solitary life by choice. When he's assigned to protect Naomi, long dormant emotions stir to life. Naomi Feldman has never understood the strange energy that hums

beneath her senses. But when she comes across an ancient artifact that seems to beckon to her, she may finally find the answers she's been seeking. Pursued by a dangerous enemy and battling their growing attraction, Naomi and Alaric follow the mystery of the artifact from the museums of Athens, the streets of London, towards a confrontation that will decide the fate of two worlds... Start reading this complete series omnibus now!

Murray Gell-Mann and the Physics of Quarks

Arcler Press

APLusPhysics: Your Guide to Regents Physics Essentials is a clear and concise roadmap to the entire New York State Regents Physics curriculum, preparing students for success in their high school physics class as well as review for high marks on the Regents Physics Exam. Topics covered include pre-requisite math and trigonometry; kinematics; forces; Newton's Laws of Motion, circular motion and gravity; impulse and momentum; work, energy, and power; electrostatics; electric circuits; magnetism; waves; optics; and modern physics. Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations, this book is integrated with the APlusPhysics.com website, which includes online question and answer forums, videos, animations, and supplemental problems to help you master Regents Physics essentials. "The best physics books are the ones kids will actually read." Advance Praise for APlusPhysics Regents Physics Essentials: "Very well written... simple, clear engaging and accessible. You hit a grand slam with this review book." -- Anthony, NY Regents Physics Teacher. "Does a great job giving students what they need to know. The value provided is amazing." -- Tom, NY Regents Physics Teacher. "This was tremendous preparation for my physics test. I love the detailed problem solutions." -- Jenny, NY Regents Physics Student. "Regents Physics Essentials has all the information you could ever need and is much easier to

understand than many other textbooks... it is an excellent review tool and is truly written for students." -- Cat, NY Regents Physics Student

APLusPhysics Penguin Group

One cowboy, one bar, one hell of a holiday! Praise for Carolyn Brown's country music romances: "You won't want to miss this boot scootin' contemporary full of sexy cowboys and sassy women."--The Romance Studio (My Give a Damn's Busted) She means business... Sharlene Waverly is determined to have the "new and improved" Honky Tonk up and running before the holiday. For that, she'll need Holt Jackson, the best darn carpenter in the state. But his warm, whisky-colored eyes make her insides melt, and before she knows it, she's sharing her darkest secrets and talking about the nightmares... He's determined to keep things professional... Holt Jackson needs the job at the Honky Tonk, but is completely unprepared to handle the beautiful new bar owner he's working for. Sharlene and Holt try like crazy to deny the sparks flying between them, but their love may just be the best Christmas present either one of them ever got. Praise for I Love This Bar: "Heart...sass...a lot of sparks and romance...country music. What more can I say? I really had fun with this book."--Red-Headed Book Child "Guaranteed to leave you countrified and satisfied!"--Love Romance Passion

Topology and Geometry in Physics Arcler Press

Chosen by People and USA Today as a Great Summer Read Georgia Waltz has an enviable life: a plush Manhattan apartment, a Hamptons beach house, two bright twenty-something daughters, and a seemingly perfect marriage. But when Ben dies suddenly, she discovers that her perfect lawyer-husband has left them nearly penniless. As Georgia scrambles to support the family, she and her daughters plumb for the grit required to reinvent their lives, and Georgia even finds that new love is possible in the land of Spanx. Inspiring, funny, and deeply satisfying, The Widow Waltz is a compulsively readable tale of forgiveness, healing, and the

bonds between mothers and daughters.

One Hot Holiday CRC Press

This book is intended to guide the reader into Econophysics, a brief approach to their methods and how economics has seemed a major impulse to become a predictable phenomenon. The book begins with an introduction to Econophysics, historical and basis and go on to cover statistical approaches to economics, and the near relation with physics models, probability in economics, few models and its reach. Also, the relation of economics with present interest in our lives, and in physics, justifying the use of probabilistic methods to analyze the markets and other approaches with modern physics in economics are presented as well.

Nonstandard Problems in General Physics with Solutions HarperCollins

"Principles of Optical Interferometry" is an edited book consisting of 19 contemporaneous open-access articles featuring different aspects of optical interferometry, from heterodyne to speckle interferometry. It includes methodologies of interferometric fringe analysis, as well the applications of Fabry-Perot, Fizeau, and Mach-Zehnder Interferometers. It introduces to a class of recent interferometer designs such as the Point Diffraction Interferometer, Radial Shearing Interferometer, Fiber-Optic Ring Resonator Interferometer and a Neural Network-Based Laser Interferometer. Reading this book requires some knowledge in calculus, differential equations, electromagnetism, and general topics in interferometry. This book is intended to reach an academic audience ranging from Science undergraduate students to experienced researchers.

Castle on the Rise Springer Science & Business Media

The second edition of the Handbook of Induction Heating reflects the number of substantial advances that have taken place over the last decade in theory, computer modeling, semi-conductor power supplies,

and process technology of induction heating and induction heat treating. This edition continues to be a synthesis of information, discoveries, and technical insights that have been accumulated at Inductoheat Inc. With an emphasis on design and implementation, the newest edition of this seminal guide provides numerous case studies, ready-to-use tables, diagrams, rules-of-thumb, simplified formulas, and graphs for working professionals and students.

Mechanical Vibration Princeton University Press
Over the past few decades, devices and technologies have been significantly miniaturized from one generation to the next, providing far more potential in a much smaller package. The smallest of these recently developed tools are miniscule enough to be invisible to the naked eye. Nanotechnology: Concepts, Methodologies, Tools, and Applications describes some of the latest advances in microscopic technologies in fields as diverse as biochemistry, materials science, medicine, and electronics. Through its investigation of theories, applications, and new developments in the nanotechnology field, this impressive reference source will serve as a valuable tool for researchers, engineers, academics, and students alike.

Handbook of Induction Heating IOS Press
"A sweet, sexy read, featuring a couple that feels both true-to-life and aspirational." Kirkus Review, Starred Review American Angie Donovan has never wanted much. When you grow up getting bounced from foster home to foster home, you learn not to become attached to anything, anyone, or any place. But it only took her two days to fall in love with Australia. With her visa clock ticking, surely she can fall in love with an Australian—and get hitched—in two months. Especially if he's as hot and funny as her next-door neighbor... Jace Walters has never wanted much—except a bathroom he didn't have to share. The last cookie all to himself. And solitude. But when you grow up in a family of seven, you can kiss those things goodbye. He's finally living alone and working on his syndicated comic strip in privacy. Sure, his

American neighbor is distractingly sexy and annoyingly nosy, but she'll be gone in a few months... Except now she's determined to find her perfect match by checking out every eligible male in the town, and her choices are even more distracting. So why does it suddenly feel like he—and his obnoxious tight-knit family, and even these two wayward dogs—could be exactly what she needs? Each book in the Patterson's Bluff series is STANDALONE: * The Aussie Next Door * Her Aussie Holiday

The Aussie Next Door L.D. Hall
Learning that Hazel Marie is pregnant with twins and that the father, private investigator J. D. Pickens, has left town, Miss Julia summons the wayward man to solve a local theft in the hopes of reuniting the couple. By the author of Miss Julia Paints the Town.

To My Arrogant Boss Penguin
It is now a century ago that one of the icons of modern physics published some of the most influential scientific papers of all times. With his work on relativity and quantum theory, Albert Einstein has altered the field of physics forever. It should not come as a surprise that looking back at Einstein's work, one needs to rethink the whole scope of physics, before and after his time. This book aims to provide a perspective on the history of modern physics, spanning from the late 19th century up to today. It is not an encyclopaedic work, but it presents the groundbreaking and sometimes provocative main contributions by Einstein as marking the line between 'old' and 'new' physics, and expands on some of the developments and open issues to which they gave rise. This presentation is not meant as a mere celebration of Einstein's work, but as a critical appraisal which provides accurate historical and conceptual information. The contributing authors all have a reputation for working on themes related to Einstein's work and its consequences. Therefore, the

collection of papers gives a good representation of what happened in the 100 years after Einstein's landmark Annalen der Physik articles. All people interested in the field of physics, history of science and epistemology could benefit from this book. An effort has been made to make the book attractive not only to scientists, but also to people with a more basic knowledge of mathematics and physics.

Physico-Mathematical Theory of High Irreversible Strains in Metals Hocus Pocus Publishing, Inc.
In about 1915, Einstein and Hilbert independently inferred a field equation of general relativity based on the geometry then known to them. Almost since inception this equation was criticised by prominent physicists and mathematicians, notably Schroedinger (1918) and Cartan (early twenties). The latter clearly informed Einstein that the type of geometry that he used had a fundamental error in it, it omitted consideration of a quantity known as spacetime torsion and used the wrong symmetry for the geometrical connection. These criticisms were brushed aside when Eddington claimed to have verified a prediction of the theory, the angle of deflection of light grazing the sun was twice the Newtonian value. It is well known by now that this claim by Eddington was subjective, the usual mistake was made of choosing data to fit a theory. It finally became clear that the field equation is hopelessly incorrect when the velocity curves of spiral galaxies were discovered in the late fifties. About that time a new generation of mathematicians and theoretical physicists began to elevate the Einstein field equation into the realms of pure mythology, it was claimed to have produced "big bang" (a derisory term coined by Sir Fred Hoyle). It is now known experimentally that this claim is again hopelessly wrong. So there is a domino effect going on, all that is known about the universe is totally wrong as one BBC programme put it recently. The reason for this is the use of the wrong type of geometry by Einstein, right at the beginning of the subject. In 2003 one of the four authors of this book began to construct a unified field theory of general relativity called "Einstein Cartan Evans"

or ECE theory. This time, the geometry was correct, and physics was based on torsion. The ECE theory has developed into about 168 source papers to date and several books and articles by ECE scholars. It has made a phenomenal worldwide impact, indicating a great dissatisfaction with the obsolete physics. This book is the first to collect the severe criticisms of Einstein that are now commonplace. Not only have cosmologists adhered to an incorrect geometry, like glue stuck to marble, but they have also compounded this error by using incorrect methods of solution of an incorrect equation. The result is, unsurprisingly, totally wrong. One of the four authors of this book is the most severe and tenacious critic of these methods, Stephen Crothers, whose careful scholarship has unearthed some amazing mistakes repeated in perpetuity. The first chapter is an introduction by Myron Evans, and in the second chapter he summarizes the development of ECE theory. The third chapter is by Stephen Crothers, and summarizes his numerous criticisms of the incorrect methods of Einsteinian cosmology, criticisms made with characteristic intellectual honesty for more than a decade. The fourth chapter is by Horst Eckardt, who makes use of computer algebra and the Evans Identity of geometry to show that all the metrics that are solutions of the Einstein field equation are incorrect due to neglect of torsion. The computer algebra ensures correctness and is the only way to deal with the often bizarre complexity of the meaningless and obsolete physics that grew like detritus around the Einstein field equation. The fifth chapter is by one of the leading astronomers in Britain, Kerry Pendegast, who gives a readable account of the new post Einsteinian astronomy, how ECE theory should be used in astronomy and how to come to grips with Hawking's sudden abandonment of his big bang theory in 2005.

Death Waits in the Dark IOS Press

Femtosecond physics is a novel branch of the theoretical physics, which investigates the interaction of atoms and molecules with pulsed or continuous wave lasers. In particular, this book treats the laser-matter coupling in a non-perturbative way using both approximate and numerical solutions of the Time-Dependent Schrödinger Equation (TDSE). Here, with the

exception of one case study, the electromagnetic field is classically treated. Several physical phenomena ranging from ionization of atoms and molecules to their dissociation and the control of photochemical reactions are presented and discussed. This book begins with a wide Section 1, which deals with the TDSE and in particular, with its solutions. Initially, it considers only those cases exactly soluble, such as a class of potentials for which the TDSE with position-dependent mass allows reduction to a stationary Schrödinger equation, a time-dependent anharmonic oscillator, and at last, the derivation of a general form of the imaginary effective potential that relates the TDSE to the generalized Schrödinger equation with a memory kernel. Section 2 focuses on the field-matter interaction in quantum two-level systems, and in particular, a derivation of analytic broadband $\pi/2$ and pulses that perform exact, or asymptotically exact, excitation of spin systems, presenting a nontrivial dynamic connection between nonlinear spin and linear spring systems. Finally, the last Section 3 considers several cases of atoms and molecules in strong laser fields. In detail, this section discusses a kinematic mechanism underlying the recently discovered 'near-zero energy structure' in the photoionization of atoms in strong mid-infrared laser fields and presents a number of benchmark calculations for intense short-pulse laser interactions with small atoms and molecules. Moreover, Section 3 presents a theoretical approach to investigate the high-order harmonic generation in the nano-graphene molecules and describes the few-electron ultrastrong light-matter coupling in a quantum LC circuit. Book jacket.