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The Asian Logic Conference (ALC) is a major international event in mathematical logic. It features the latest scientific developments in the fields of mathematical logic and its applications, logic in computer science, and philosophical logic. The ALC series also aims to promote mathematical logic in the Asia-Pacific region and to bring logicians together both from within Asia and elsewhere for an exchange of information and ideas. This combined proceedings volume represents works presented or arising from the 14th and 15th ALCs. A weekly review of politics, literature, theology, and art. NOW IN PAPERBACK"€"Starting from a collection of simple computer experiments"€"illustrated in the book by striking computer graphics"€"Stephen Wolfram shows how their unexpected results force a whole new way of looking at the operation of our universe.

The Asian Physics Olympiad (APhO) is a unique, single-subject, practical and theory-based individual competition in the field of physics. It was developed to provide young Asian students with a platform to display their physics knowledge. It is the celebration of the best

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in pre-university physics. Each year, for about one week, pre-university students from across Asia gather and test their theory and practical skills in physics. This book contains question papers in both theory and experiment and their solutions together with description of various activities of the 15th Asian Physics Olympiad held in Singapore from 11th to 18th May 2014. The book will serve as a valuable source of interesting and challenging experimental and theoretical topics for young physicists worldwide. Contents: Participating Delegations Speeches Opening Ceremony Closing Ceremony Committee Programme Results Participants Problems and Solutions Theory Problem 1 Theory Problem 2 Theory Problem 3 Experimental Problem Selected Translations International Board Statutes Syllabus Minutes of the International Board Meeting Newsletter Photos Readership: Students, lecturers and educators interested in high school physics. Key Features: Useful study guide for students training for Physics Olympiads and similar competitions Useful teaching guide for physics educators and those working in higher education Keywords: Physics Olympiad; Training; Physics Education; APhO; Singapore; Competition; NUS; A-STAR

Imagine what it would be like to go back in time to the 15th century Venice. And imagine what it would be like to meet your lifelong hero, Michelangelo. And imagine what it would be like if, on first meeting, you spill a tray of pasta and wine on that very same hero. Well, that's what happens to serious young artist Mark Breen. As the result of a drunken bet, Mark knocks out a painting of a toilet bowl. Much to his amazement, he sells it. In short

order he's hailed as the new Andy Warhol and becomes an overnight sensation-and a very wealthy man. Soon, images of his toilet bowls are on more t-shirts, mugs, and calendars than Edvard Munch's The Scream. His friend and mentor, Hugh Connelly, afraid that Mark is in danger of losing his "artistic soul," advises him to go back to Italy and reacquaint himself with the "old masters." In Venice, Mark falls in love with Alexandra, a beautiful art restorer, but it's a one-sided affair. One night, hoping to win her over, he climbs up on a roof to find out who painted her favorite fresco. He falls off the roof and wakes up in 15th century Venice where he meets an innkeeper named Francesca, who looks exactly like Alexandra. And it gets curiouser and curiouser from there. During his stay-which is sometimes zany and sometimes frightening-he meet his hero, Michelangelo, who teaches him the true meaning of art.

Progress in Physics has been created for rapid publications on advanced studies in theoretical and experimental physics, including related themes from mathematics and astronomy.

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

Wildly original, funny and moving, The First Fifteen Lives

of Harry August is an extraordinary story of a life lived again and again from World Fantasy Award-winning author Claire North. Harry August is on his deathbed. Again. No matter what he does or the decisions he makes, when death comes, Harry always returns to where he began, a child with all the knowledge of a life he has already lived a dozen times before. Nothing ever changes. Until now. As Harry nears the end of his eleventh life, a little girl appears at his bedside. "I nearly missed you, Doctor August," she says. "I need to send a message." This is the story of what Harry does next, and what he did before, and how he tries to save a past he cannot change and a future he cannot allow.

The fifteenth novel in Cherryh's Foreigner space opera series, a groundbreaking tale of first contact and its consequences... Civil war on the world of the atevi is finally over. And Cajeiri, son and heir of Tabini-aiji, atevi leader of the dominant Western Association, is about to celebrate his fortunate ninth birthday. Bren Cameron, brilliant human diplomat allied with Tabini, has managed to arrange a visit for Cajeiri's three special associates from the starship Phoenix—ordinary human children who developed a bond with Cajeiri during his two years in space. After a year of political upheaval, this is a happy event: the heir is safe, the aiji is back in power, and a massive celebration is planned in the capital. The whole world is watching. But Bren Cameron has received evidence that security has been severely compromised from the aiji's high office on downward. The powerful Assassins' Guild—which provides the judicial system, law enforcement, and personal protection in atevi society—is

in the hands of a man who would like to turn the entire world back two centuries. Bren now knows the details of a decades-old plot that's been threaded through Guild actions since before his arrival on the continent. The enemy's best chance is to strike now, at the public celebration that is much too important and far too advanced to cancel. Bren and his associates have no choice. If they don't make the first move, the other side will. And the lives of the heir, his innocent human guests, and the entire ruling family are at stake. The long-running Foreigner series can also be enjoyed by more casual genre readers in sub-trilogy installments. Peacemaker is the 15th Foreigner novel, and the 3rd book in the fifth subtrilogy.

Rachel Morgan's back! Bestselling author Kim Harrison returns with a new supernatural adventure that fans of Laurell K. Hamilton and Charlaine Harris won't want to miss. Some days, you just can't win. Witch and former bounty hunter Rachel Morgan's managed to escape her corrupt company, survive living with a vampire, start her own runner service, and face down a vampire master. But her vampire roommate Ivy is off the wagon, her human boyfriend Nick is out of town indefinitely and doesn't sound like he's coming back while the far-too-seductive vampire Kisten is looking way too tempting, and there's a turf war erupting in Cincinnati's underworld. And there's a greater evil still. To put the vampire master behind bars and save her family, Rachel made a desperate bargain and now there's hell to pay—literally. For if Rachel cannot stop him, the archdemon Algaliarept will pull her into the sorcerous ever-after to forfeit her

soul as his slave. Forever.

Robert Lanza is one of the most respected scientists in the world a US News and World Report cover story called him a genius and a renegade thinker, even likening him to Einstein. Lanza has teamed with Bob Berman, the most widely read astronomer in the world, to produce Biocentrism, a revolutionary new view of the universe. Every now and then a simple yet radical idea shakes the very foundations of knowledge. The startling discovery that the world was not flat challenged and ultimately changed the way people perceived themselves and their relationship with the world. For most humans of the 15th century, the notion of Earth as ball of rock was nonsense. The whole of Western, natural philosophy is undergoing a sea change again, increasingly being forced upon us by the experimental findings of quantum theory, and at the same time, toward doubt and uncertainty in the physical explanations of the universes genesis and structure. Biocentrism completes this shift in worldview, turning the planet upside down again with the revolutionary view that life creates the universe instead of the other way around. In this paradigm, life is not an accidental byproduct of the laws of physics. Biocentrism takes the reader on a seemingly improbable but ultimately inescapable journey through a foreign universe our own from the viewpoints of an acclaimed biologist and a leading astronomer. Switching perspective from physics to biology unlocks the cages in which Western science has unwittingly managed to confine itself. Biocentrism will shatter the readers ideas of life--time and space, and even death. At the same time it will

release us from the dull worldview of life being merely the activity of an admixture of carbon and a few other elements; it suggests the exhilarating possibility that life is fundamentally immortal. The 21st century is predicted to be the Century of Biology, a shift from the previous century dominated by physics. It seems fitting, then, to begin the century by turning the universe outside-in and unifying the foundations of science with a simple idea discovered by one of the leading life-scientists of our age. Biocentrism awakens in readers a new sense of possibility, and is full of so many shocking new perspectives that the reader will never see reality the same way again.

Imagine, if you can, the world in the year 2100. In *Physics of the Future*, Michio Kaku—the New York Times bestselling author of *Physics of the Impossible*—gives us a stunning, provocative, and exhilarating vision of the coming century based on interviews with over three hundred of the world's top scientists who are already inventing the future in their labs. The result is the most authoritative and scientifically accurate description of the revolutionary developments taking place in medicine, computers, artificial intelligence, nanotechnology, energy production, and astronautics. In all likelihood, by 2100 we will control computers via tiny brain sensors and, like magicians, move objects around with the power of our minds. Artificial intelligence will be dispersed throughout the environment, and Internet-enabled contact lenses will allow us to access the world's information base or conjure up any image we desire in the blink of an eye. Meanwhile, cars will drive themselves using GPS, and if

room-temperature superconductors are discovered, vehicles will effortlessly fly on a cushion of air, coasting on powerful magnetic fields and ushering in the age of magnetism. Using molecular medicine, scientists will be able to grow almost every organ of the body and cure genetic diseases. Millions of tiny DNA sensors and nanoparticles patrolling our blood cells will silently scan our bodies for the first sign of illness, while rapid advances in genetic research will enable us to slow down or maybe even reverse the aging process, allowing human life spans to increase dramatically. In space, radically new ships—needle-sized vessels using laser propulsion—could replace the expensive chemical rockets of today and perhaps visit nearby stars. Advances in nanotechnology may lead to the fabled space elevator, which would propel humans hundreds of miles above the earth's atmosphere at the push of a button. But these astonishing revelations are only the tip of the iceberg. Kaku also discusses emotional robots, antimatter rockets, X-ray vision, and the ability to create new life-forms, and he considers the development of the world economy. He addresses the key questions: Who are the winner and losers of the future? Who will have jobs, and which nations will prosper? All the while, Kaku illuminates the rigorous scientific principles, examining the rate at which certain technologies are likely to mature, how far they can advance, and what their ultimate limitations and hazards are. Synthesizing a vast amount of information to construct an exciting look at the years leading up to 2100, *Physics of the Future* is a thrilling, wondrous ride through the next 100 years of

brehtaking scientific revolution.

Ptolemy's *Almagest* is one of the most influential scientific works in history. A masterpiece of technical exposition, it was the basic textbook of astronomy for more than a thousand years, and still is the main source for our knowledge of ancient astronomy. This translation, based on the standard Greek text of Heiberg, makes the work accessible to English readers in an intelligible and reliable form. It contains numerous corrections derived from medieval Arabic translations and extensive footnotes that take account of the great progress in understanding the work made in this century, due to the discovery of Babylonian records and other researches. It is designed to stand by itself as an interpretation of the original, but it will also be useful as an aid to reading the Greek text.

This book constitutes the proceedings of the 14th International Conference on Engineering Psychology and Cognitive Ergonomics, EPCE 2018, held as part of the 20th International Conference, HCI International 2018, which took place in Las Vegas, Nevada, in July 2018. The total of 1171 papers and 160 posters included in the 30 HCII 2018 proceedings volumes was carefully reviewed and selected from 4346 submissions. EPCE 2018 includes a total of 57 papers; they were organized in topical sections named: mental workload and human error; situation awareness, training and team working; psychophysiological measures and assessment; interaction, cognition and emotion; and cognition in aviation and space.

The epic, behind-the-scenes story of an astounding gap

in our scientific knowledge of the cosmos. In the past few years, a handful of scientists have been in a race to explain a disturbing aspect of our universe: only 4 percent of it consists of the matter that makes up you, me, our books, and every planet, star, and galaxy. The rest—96 percent of the universe—is completely unknown. Richard Panek tells the dramatic story of how scientists reached this conclusion, and what they're doing to find this "dark" matter and an even more bizarre substance called dark energy. Based on in-depth, on-site reporting and hundreds of interviews—with everyone from Berkeley's feisty Saul Perlmutter and Johns Hopkins's meticulous Adam Riess to the quietly revolutionary Vera Rubin—the book offers an intimate portrait of the bitter rivalries and fruitful collaborations, the eureka moments and blind alleys, that have fueled their search, redefined science, and reinvented the universe.

One day Sophie comes home from school to find two questions in her mail: "Who are you?" and "Where does the world come from?" Before she knows it she is enrolled in a correspondence course with a mysterious philosopher. Thus begins Jostein Gaarder's unique novel, which is not only a mystery, but also a complete and entertaining history of philosophy.

Union Bank of India is one of the largest government-owned banks of India with 120+ million customers and a total business of US\$106 billion . After the amalgamation with Corporation Bank and Andhra Bank, which came into effect on 1 April 2020, the amalgamated entity becomes the fourth largest bank in terms of branch network. UBI now has around 9500 branches after the

amalgamation. Four of these are overseas in Hong Kong, Dubai, Antwerp, and Sydney. UBI also has representative offices at Shanghai, Beijing and Abu Dhabi. Lastly, UBI operates in the United Kingdom through its wholly owned subsidiary, Union Bank of India (UK). Union Bank of India was the anchor bank for both Andhra Bank and Corporation Bank, which came into effect on 1 April 2020 as announced by finance Minister of India Nirmala Sitharaman.

Bound with vol. 1- , 1934- , is the Society's annual report and list of members, 1934- .

This book presents the Proceedings of the 15th International Conference on Non-Hermitian Hamiltonians in Quantum Physics, held in Palermo, Italy, from 18 to 23 May 2015. Non-Hermitian operators, and non-Hermitian Hamiltonians in particular, have recently received considerable attention from both the mathematics and physics communities. There has been a growing interest in non-Hermitian Hamiltonians in quantum physics since the discovery that PT-symmetric Hamiltonians can have a real spectrum and thus a physical relevance. The main subjects considered in this book include: PT-symmetry in quantum physics, PT-optics, Spectral singularities and spectral techniques, Indefinite-metric theories, Open quantum systems, Krein space methods, and Biorthogonal systems and applications. The book also provides a summary of recent advances in pseudo-Hermitian Hamiltonians and PT-symmetric Hamiltonians, as well as their applications in quantum physics and in the theory of open quantum systems.

-The aim of this text is to present, as simply and clearly

as possible, the essentials of physics, chemistry, geology, and astronomy.

This title examines the legal ramifications of Satan's original rebellion, his authority as god of this age, his stand on Earth with the Antichrist, and his final judgement at the throne of God. The book goes on to disclose the key event that will begin the last seven - year countdown to Armageddon and the physical act that will reveal the Antichrist and constitute the final abomination of desolation: the legal prerequisites to the return of the Messiah!

Mistakenly kidnapped as part of a years-long family feud, Ellen must do whatever it takes to protect herself from her cruel captor, Mischa. Will he show her mercy and kindness - or will he break her? **WHEN HATE BECOMES OBSESSION...** Mistaken for her beautiful half-sister, Ellen Winthrop is taken captive by a madman who declares that she will be his "fifteen" the fifteenth victim of a vicious mafia blood feud. Armed with only her instincts, Ellen must resist her captor for as long as she can-which is easier said than done the more she's exposed to the complex man beneath the beast. Because Mischa Stepanov isn't a mindless monster-he's a wolf, and she's the unwitting doe caught in his midst. Unraveling the torment of his past may be her only hope of salvation... Or the secrets uncovered may destroy them both.

This volume explores the evolution of the technique, composition and colouration of the woodcut beginning with the earliest publications. It features examples from Germany, Italy, France, Spain and The Netherlands.

A cyanide capsule and a bullet to the head. This is how Adolf Hitler is about to kill himself. The date is the 30th of April, the year is 1945. Hitler and his wife of less than two days, Eva Braun, are together in the Fuhrerbunker, an underground complex near the Reich Chancellery in Berlin. Berlin itself is not yet under siege, but it is apparent to all that it soon will be. For the Allies have defeated the Wehrmacht in the Belgian Ardennes and have already crossed the Rhine into Germany. While at the same time, the Red Army are advancing westwards towards the German capital, unstoppable since their decisive victory at Stalingrad. As a result, SS generals are now refusing to obey Hitler's orders. Stuck down in his bunker and feeling powerless, Hitler has begun to suffer a mental breakdown. The war is lost and he knows it now. Germany surrendered, unconditionally, a week after Hitler's death, on the 7th of May, 1945. The following day was declared Victory in Europe Day. The Second World War on the European continent was formally confirmed over. The war would continue in Asia for another three months, eventually ending on the 15th of August, 1945 - just over a week after the dropping of the Little Boy and Fat Man atomic bombs on the Japanese cities of Hiroshima and Nagasaki. Germany was in utter ruins and occupied by the armies of the Soviet Union, France, America, and Britain and her Commonwealth. Meanwhile the world had witnessed the utterly destructive power of atomic weapons. This was how the Second World War ended; it was also how the Cold War began. The Cold War would last nearly half a century, with flashpoints occurring in locations all across

the globe; from Afghanistan to Vietnam, Korea to Cuba. The real Cold War battlefront, though, was in Germany. It was here where the militaries of the Soviet Union and the Warsaw Pact countries faced off against the militaries of America and her European NATO allies. It was here where the bulk of the nuclear missiles were located, where the troops were based. Germany - then Germanies - was the true frontier of the Cold War. Following the collapse of the Berlin Wall in 1989, and the dissolution of the Soviet Union shortly after in 1991, the militaries that had based themselves in Germany for the past 50 years started to slowly return to their respective home countries. The military bases, and all the infrastructure that went along with sustaining them, were stripped bare and left behind. The purpose of this book is to document these Cold War sites as they are today, in 2016. They will not be around for much longer; most face imminent demolition, and the ones that don't are decaying and succumbing to nature. The hope is that by documenting how these bases currently are, as well as providing a short history on each of the sites, an audience unable to visit them themselves will learn something new about the Cold War. It was a military stand-off on a scale of which the world has never seen before. We have history books that communicate that scale; that communicate the dangers faced; the close calls and near misses; the fallibility of all those involved. Perhaps this book, and the pictures it contains, can help to communicate some of these things too, but in a different way.

Scorn the witch. Fear the witch. Burn the witch. History is

filled with stories of women accused of witchcraft, of fearsome girls with arcane knowledge. *Toil & Trouble* features fifteen stories of girls embracing their power, reclaiming their destinies and using their magic to create, to curse, to cure—and to kill. A young witch uses social media to connect with her astrology clients—and with a NASA-loving girl as cute as she is skeptical. A priestess of death investigates a ritualized murder. A bruja who cures lovesickness might need the remedy herself when she falls in love with an altar boy. A theater production is turned upside down by a visiting churel. In Reconstruction-era Texas, a water witch uses her magic to survive the soldiers who have invaded her desert oasis. And in the near future, a group of girls accused of witchcraft must find their collective power in order to destroy their captors. This collection reveals a universal truth: there's nothing more powerful than a teenage girl who believes in herself.

The Physical Universe, 15e by Konrad Krauskopf and Arthur Beiser is an outstanding text with a long history that has been updated and given a fresh look. This edition is also accompanied by a strong media component with the Connect online homework system, personal response system ("clicker") questions, more extensive online quizzing, and PowerPoint lectures. Aimed at presenting the essentials of physics, chemistry, earth science, and astronomy in a clear, easy-to-understand way, *The Physical Universe* shows students how science works, how scientists approach problems, and why science constantly evolves in its search for understanding. The text can also be packaged with its

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long time companion student study guide, which includes a review of chapter terms and concepts; self quizzing for extra practice; and additional solved problems.

#1 NEW YORK TIMES BESTSELLER • A modern, sophisticated suspense novel from National Book Award finalist, and Printz Award honoree E. Lockhart. A beautiful and distinguished family. A private island. A brilliant, damaged girl; a passionate, political boy. A group of four friends—the Liars—whose friendship turns destructive. A revolution. An accident. A secret. Lies upon lies. True love. The truth. Read it. And if anyone asks you how it ends, just LIE. "Thrilling, beautiful, and blisteringly smart, *We Were Liars* is utterly unforgettable." —John Green, #1 New York Times bestselling author of *The Fault in Our Stars* Don't miss the eagerly anticipated prequel, *Family of Liars*, available May 2022!

NEW YORK TIMES BESTSELLER • "Jack Reacher is the coolest continuing series character now on offer."—Stephen King, in *Entertainment Weekly* #1 New York Times bestselling author Lee Child follows the electrifying *61 Hours* with his latest Reacher thriller—a story that hits the ground running and then accelerates all the way to a colossal showdown. There's deadly trouble in the corn country of Nebraska . . . and Jack Reacher walks right into it. First he falls foul of the Duncans, a local clan that has terrified an entire county into submission. But it's the unsolved case of a missing child, already decades-old, that Reacher can't let go. The Duncans want Reacher gone—and it's not just past secrets they're trying to hide. They're awaiting a secret

shipment that's already late—and they have the kind of customers no one can afford to annoy. For as dangerous as the Duncans are, they're just the bottom of a criminal food chain stretching halfway around the world. For Reacher, it would have made much more sense to keep on going, to put some distance between himself and the hard-core trouble that's bearing down on him. For Reacher, that was also impossible. Worth Dying For is the kind of explosive thriller only Lee Child could write and only Jack Reacher could survive—a heart-racing page-turner no suspense fan will want to miss.

Can we lose a loved one without losing ourselves? Twenty-eight-year-old Drew Thomson is haunted by a troubled past. After struggling for years with alcoholism and antisocial behavior, he ends a stable relationship with his girlfriend and finds himself without a home, job, or purpose. Just as he learns that his father is terminally ill, he meets a stranger who offers him a flicker of hope for a better future. But is he ready to bury the past? Rich with dark humor and a keen insight into the human condition, this debut fictional release from author Brent Jones delves into life's most pressing trials—destructive relationships, love, loss, and pursuing happiness. . . . " . . . authors like Mordecai Richler and Douglas Coupland . . . known for their dark but humourous literary masterpieces, clearly guided Jones' hand during the production of his debut novel, *The Fifteenth of June*." -NIAGARA THIS WEEK "I think some of the ugly truths about human nature in [*The Fifteenth of June*] were powerful. Fantastic debut from a talented author." -MICHAEL MCDONALD, AUTHOR OF WALKING

AWAY FROM DEPRESSION "[The Fifteenth of June] is full of wit, and even though the story has some darkness to it, it has plenty of humor and lighthearted moments as well to balance it out." -DANA GORE, AUTHOR OF CHOOSE AWARENESS "[The Fifteenth of June is] a process, for both the protagonist and the reader, of self-discovery and acceptance . . . and through this process, both reader and protagonist are shown glimpses of hope, of different possibilities, of the potential for change, and begin to understand that the way events and situations shape us depends on how we choose to deal with them . . ." -DAPHNE KAPSALI, AUTHOR OF 100 DAYS OF SOLITUDE

Amoral, cunning, ruthless, and instructive, this multi-million-copy New York Times bestseller is the definitive manual for anyone interested in gaining, observing, or defending against ultimate control – from the author of The Laws of Human Nature. In the book that People magazine proclaimed “beguiling” and “fascinating,” Robert Greene and Joost Elffers have distilled three thousand years of the history of power into 48 essential laws by drawing from the philosophies of Machiavelli, Sun Tzu, and Carl Von Clausewitz and also from the lives of figures ranging from Henry Kissinger to P.T. Barnum. Some laws teach the need for prudence (“Law 1: Never Outshine the Master”), others teach the value of confidence (“Law 28: Enter Action with Boldness”), and many recommend absolute self-preservation (“Law 15: Crush Your Enemy Totally”). Every law, though, has one thing in common: an interest in total domination. In a bold and arresting two-color package, The 48 Laws of

Power is ideal whether your aim is conquest, self-defense, or simply to understand the rules of the game. Could the science fiction of Star Wars be the actual science of tomorrow? -How close are we to creating robots that look and act like R2-D2 and C-3PO? -Can we access a "force" with our minds to move objects and communicate telepathically with each other? -How might spaceships like the Millennium Falcon make the exhilarating jump into hyperspace? -What kind of environment could spawn a Wookiee? -Could a single blast from the Death Star destroy an entire planet? -Could light sabers possibly be built, and if so, how would they work? -Do Star Wars aliens look like "real" aliens might? -What would living on a desert planet like Tatooine be like? -Why does Darth Vader require an artificial respirator? Discover the answers to these and many other fascinating questions of physics, astronomy, biology and more, as a noted scientist and Star Wars enthusiast explores The Science of Star Wars.

Ideal for undergraduates with little or no science background, Earth Science is a student-friendly overview of our physical environment that offers balanced, up-to-date coverage of geology, oceanography, astronomy, and meteorology. The authors focus on readability, with clear, example-driven explanations of concepts and events. The Thirteenth Edition incorporates a new active learning approach, a fully updated visual program, and is available for the first time with MasteringGeology--the most complete, easy-to-use, engaging tutorial and assessment tool available, and also entirely new to the Earth science course.

From a star theoretical physicist, a journey into the world of particle physics and the cosmos -- and a call for a more just practice of science. In *The Disordered Cosmos*, Dr. Chanda Prescod-Weinstein shares her love for physics, from the Standard Model of Particle Physics and what lies beyond it, to the physics of melanin in skin, to the latest theories of dark matter -- all with a new spin informed by history, politics, and the wisdom of *Star Trek*. One of the leading physicists of her generation, Dr. Chanda Prescod-Weinstein is also one of fewer than one hundred Black American women to earn a PhD from a department of physics. Her vision of the cosmos is vibrant, buoyantly non-traditional, and grounded in Black feminist traditions. Prescod-Weinstein urges us to recognize how science, like most fields, is rife with racism, sexism, and other dehumanizing systems. She lays out a bold new approach to science and society that begins with the belief that we all have a fundamental right to know and love the night sky. *The Disordered Cosmos* dreams into existence a world that allows everyone to tap into humanity's wealth of knowledge about the wonders of the universe.

This unprecedented collection of 27,000 quotations is the most comprehensive and carefully researched of its kind, covering all fields of science and mathematics. With this vast compendium you can readily conceptualize and embrace the written

images of scientists, laymen, politicians, novelists, playwrights, and poets about humankind's scientific achievements. Approximately 9000 high-quality entries have been added to this new edition to provide a rich selection of quotations for the student, the educator, and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject. Gaither's Dictionary of Scientific Quotations, Second Edition, provides the finest reference source of science quotations for all audiences. The new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories.

The dawn of print was a major turning point in the early modern world. It rescued ancient learning from obscurity, transformed knowledge of the natural and physical world, and brought the thrill of book ownership to the masses. But, as Andrew Pettegree reveals in this work of great historical merit, the story of the post-Gutenberg world was rather more complicated than we have often come to believe. The Book in the Renaissance reconstructs the first 150 years of the world of print, exploring the complex web of religious, economic, and cultural concerns surrounding the printed word. From its very beginnings, the printed book had to straddle financial and religious imperatives, as well as the very

different requirements and constraints of the many countries who embraced it, and, as Pettegree argues, the process was far from a runaway success. More than ideas, the success or failure of books depended upon patrons and markets, precarious strategies and the thwarting of piracy, and the ebb and flow of popular demand. Owing to his state-of-the-art and highly detailed research, Pettegree crafts an authoritative, lucid, and truly pioneering work of cultural history about a major development in the evolution of European society.

The Physical Universe McGraw-Hill Education

What were the ideas held by medieval man concerning the size and shape of the earth? How many planets were there, and of what material was the universe constructed? What was the relationship between the sky and Heaven? How were snow, thunderstorms and comets explained? In this fascinating book Dr Simek shows that though nature was thought to be permeated by the will of God, there were numerous explanations for unknown phenomena, from the simple theories of the early middle ages to the more sophisticated ideas of the centres of learned scholasticism in Paris and Oxford. He presents a cross-section of the medieval knowledge of the physical world as deliberated and discussed by authors from the 9th to the 15th centuries. He touches on fields as diverse as astronomy, geography, physics, botany and

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chemistry, and shows how medieval knowledge
combined scientific' explanations with others from
popular mythology and folklore. RUDOLF SIMEK is
Professor of Medieval German and Scandinavian
Literature at the University of Bonn in Germany.
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