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The intellectual adventure story of the "double-slit" experiment, showing how a sunbeam split into two paths first challenged our understanding of light and then the nature of reality itself--and continues to almost two hundred years later. Many of science's greatest minds have grappled with the simple yet elusive "double-slit" experiment. Thomas Young devised it in the early 1800s to show that light behaves like a wave, and in doing so opposed Isaac Newton. Nearly a century later, Albert Einstein showed that light comes in quanta, or particles, and the experiment became key to a fierce debate between Einstein and Niels Bohr over the nature of reality. Richard Feynman held that the double slit embodies the central mystery of the quantum world. Decade after decade, hypothesis after hypothesis, scientists have returned to this ingenious experiment to help them answer deeper and deeper questions about the fabric of the universe. How can a single particle exist before we look at it, or does the very act of looking create reality? Are there hidden aspects to reality missing from the orthodox view of quantum physics? Is there a place where the quantum world ends and the familiar classical world of our daily lives begins, and if so, can we find it? And if there's no such place, then does the universe split into two each time a particle goes through the double slit? With his extraordinarily gifted eloquence, Anil Ananthaswamy travels around the world and through history, down to the smallest scales of physical reality we have yet fathomed. Through Two Doors at Once is the most valuable for policy makers. Yet there has been, up to now, a wide gulf between the level at which macroeconomics is taught at the undergraduate level at which it is practiced. At the same time, doctoral-level textbooks are usually not targeted at a policy audience, making advanced macroeconomics less accessible to current and aspiring practitioners. This book, born out of the Masters course the authors taught for many years at the Harvard Kennedy School, fills this gap. It introduces the tools of dynamic optimization in the context of economic growth, and then applies them to a wide range of policy questions - ranging from pensions, consumption, investment and finance, to the most recent developments in fiscal and monetary policy. It does so with the requisite rigor, but also with a light touch, and an unyielding focus on their application to policy-making, as befits the authors' own practical experience. Advanced Macroeconomics: An Easy Guide is bound to become a great resource for graduate students, and practitioners alike. The #1 New York Times bestseller that sparked international dialogue is now a book for young adults! Based on the adult bestseller by Ibram X. Kendi, and co-authored by bestselling author Nic Stone, How to be an Antiracist by Ibram X. Kendi is shaping the way a generation thinks about race and racism. How to be a (Young) Antiracist is a dynamic reframing of the concepts shared in the adult book, with young adulthood front and center. Aimed at readers 12 and up, and co-authored by award-winning children's book author Nic Stone, How to be a (Young) Antiracist empowers teen readers to help create a more just society. Antiracism is a journey--and now young adults will have a map to carve their own path. Kendi and Stone have revised this work to provide anecdotes and data that speaks directly to the experiences and concerns of younger readers, encouraging them to think critically and build a more equitable world in doing so. The New York Times bestselling author of Being Mortal and Complications reveals the surprising power of the ordinary checklist We live in a world of great and increasing complexity, where even the most expert professionals struggle to master the tasks they face. Longer training, ever more advanced technologies—neither seems to prevent grievous errors. But in a hopeful turn, acclaimed surgeon and writer Atul Gawande finds a remedy in the humblest and simplest of techniques: the checklist. First introduced decades ago by the U.S. Air Force, checklists have enabled pilots to fly aircraft of mind-boggling sophistication. Now innovative checklists are being adopted in hospitals around the world, helping doctors and nurses respond to everything from flu epidemics to avalanches. Even in the immensely complex world of surgery, a simple ninety-second variant has cut the rate of fatalities by more than a third. In riveting stories, Gawande takes us from Austria, where an emergency checklist in intensive care units virtually eliminated a type of deadly hospital infection. He explains how checklists actually work to prompt striking and immediate improvements. And he follows the checklist revolution into fields well beyond medicine, from disaster response to investment banking, skyscraper construction, and businesses of all kinds. An intellectual adventure in which lives are lost and saved and one simple idea makes a tremendous difference, The Checklist Manifesto is essential reading for anyone working to get things right. This is a reissue of a classic text, which includes the author's own corrections and provides a very accessible, self contained introduction to the classical theory of orders and maximal orders over a Dedekind ring. It starts with a long chapter that provides the algebraic prerequisites for this theory, covering basic material on Dedekind domains, localizations and completions, as well as semisimple rings and separable algebras. This is followed by an introduction to the basic tools in studying orders, such as reduced norms and traces, discriminants, and localization of orders. The theory of maximal orders is then developed in the local case, first in a complete setting, and then over any discrete valuation ring. This paves the way to a chapter on the ideal theory in global maximal orders, with detailed expositions on ideal classes, the Jordan-Zassenhaus Theorem, and genera. This is followed by a chapter on Brauer groups and crossed product algebras, where Hasse's theory of cyclic algebras over local fields is presented in a clear and self-contained fashion. Assuming a couple of facts from class field theory, the book goes on to present the theory of simple algebras over global fields, covering in particular Eichler's Theorem on the ideal classes in a maximal order, as well as various results on the KO group and Picard group of orders. The rest of the book is devoted to a discussion of non-maximal orders, with particular emphasis on hereditary orders and group rings. The ideas collected in this book have found important applications in the smooth representation to this wide range of topics. It is written at a level suitable for beginning postgraduate students, is highly suited to class teaching and provides a wealth of exercises. The New York Times bestselling craft guide that inspired the hit new TV show, At Home With Amy Sedaris sets the record straight and delivers a book that will forever change the world of crafting. Demonstrating that crafting is one of life's more pleasurable and constructive leisure activities, Sedaris shows that anyone with a couple of hours to kill and access to pipe cleaners can join the elite society of crafters. You will discover how to make popular crafts such as Pompom Ringworms and Seashell Toilet Seat Covers, all while avoiding the most common crafting accidents (sawdust fires, feather asphyxia, pine cone lodged in throat). You will cook your own edible crafts, from a Crafty Candle Salad to Sugar Skulls, with many more recipes and craft ideas that will inspire you to create your very own hastily constructed obscure d'arts. Praise for Simple Times "Amy Sedaris is a kookier, kitschier version of Martha Stewart...Simple Times is an ideal gift for the crafter who has crafted everything." - Associated Press "A wildly cheeky guide." -- InStyle "For anyone who's ever collected hats crocheted together...or simply for fans of Amy Sedaris and her idiosyncratic sense of humor." -- New York Times Book Review An ethologist shows man to be a gene machine whose world is one of savage competition and deceit The #1 New York Times bestseller. Over 4 million copies sold! Tiny Changes, Remarkable Results No matter your goals, Atomic Habits offers a proven framework for improving--every day. James Clear, one of the world's leading experts on habit formation, reveals practical strategies that will teach you exactly how to form good habits, break bad ones, and master the tiny behaviors that lead to remarkable results. If you're having trouble changing your habits, the problem is your system. Bad habits repeat themselves again and again not because you don't want to change, but because you don't want to change. You do not rise to the level of your goals. You fall to the level of your systems. Here, you'll get a proven system that can take you to new heights. Clear is known for his ability to distill complex topics into simple behaviors that can be easily applied to daily life and work. Here, he draws on the most proven ideas from biology, psychology, and neuroscience to create an easy-to-understand guide for making good habits impossible. Along the way, readers will be inspired and entertained with true stories from Olympic gold medalists, award-winning artists, business leaders, life-saving physicians, and star comedians who have used the science of small habits to master their craft and vault to the top of their field. Learn how to: make time for new habits (even when life gets crazy); overcome a lack of motivation and willpower; design your environment to make success easier; get back on track when you fall off course; ...and much more. Atomic Habits-whether you are a team looking to win a championship, an organization hoping to redefine an industry, or simply an individual who wishes to quit smoking, lose weight, reduce stress, or achieve any other goal. Providing an elementary introduction to noncommutative rings and algebras, this textbook begins with the classical theory of finite dimensional algebras. Only after this, modules, vector spaces over division rings, and tensor products are introduced and studied. This is followed by Jacobson's structure theory of rings. The final chapters treat free algebras, polynomial identities, and rings of quotients. Many of the proofs, with several being different from those in other texts on the subject. Prerequisites are kept to a minimum, and new concepts are introduced gradually and are carefully motivated. Introduction to Noncommutative Algebra is therefore accessible to a wide mathematical audience. It is, however, primarily intended for beginning graduate and advanced undergraduate students encountering noncommutative algebra for the first time. This Guide offers a concise overview of the theory of groups, rings, and fields at the graduate level, emphasizing those aspects that are useful in other parts of mathematics. It focuses on the main ideas and how they hang together. It will be useful to both students and professionals. In addition to the standard material on groups, rings, modules, fields, and Galois theory, the book includes discussions of other important topics that are often omitted in the standard graduate course, including linear groups, group representations, the structure of Artinian rings, projective, injective and flat modules, Dedekind domains, and central simple algebras. All of the important theorems are discussed, without proofs but often with a discussion of the intuitive ideas behind those proofs. Those looking for a way to review and refresh their basic algebra will benefit from reading this Guide, and it will also serve as a ready reference for mathematicians who make use of algebra in their work. THE #1 INTERNATIONAL BESTSELLER WITH OVER 28 MILLION COPIES IN PRINT! A timeless business classic, Who Moved My Cheese? uses a simple parable to reveal profound truths about dealing with change so that you can enjoy less stress and more success in your work and in your life. It would be all so easy if you had a map to the Maze. If they'd just stop moving "The Cheese." But things keep changing... Most people are fearful of change, both personal and professional, because they don't have any control over how or when it happens to them. Since change happens either to the individual or by the individual, Dr. Spencer Johnson, the coauthor of the multimillion bestseller The One Minute Manager, uses a deceptively simple story to show that when it comes to living in a rapidly changing world, what matters most is your attitude. Exploring a simple way to take the fear and anxiety out of managing the future, Who Moved My Cheese? can help you discover how to anticipate, acknowledge, and accept change in order to have a positive impact on your relationships, and every aspect of your life. The final book of the Bible, Revelation prophesies the ultimate judgement of mankind in a series of allegorical visions, grisly images and numerological predictions. According to these, empires will fall, the "Beast" will be destroyed and Christ will rule a new Jerusalem. With an introductory text in classical algebra. The text moves methodically with numerous examples and details so that readers with some basic knowledge of algebra can read it without difficulty. It is recommended either as a textbook for some particular algebra. The book contains a wealth of material. Amongst the topics covered in Volume are the theory of ordered fields and Nullstellen Theorems. Known researcher Lorenz also includes the fundamentals of the theory of quadratic forms, of valuations, local fields and modules. What's more, the book contains some lesser known or nontraditional results – for instance, Tsen's results on the solubility of systems of polynomial equations with a sufficiently large number of indeterminates. In this introductory textbook the author explains the key topics in cryptography. He takes a modern approach, where defining what is meant by "secure" is as important as creating something that achieves that goal, and security definitions are central to the discussion throughout. The author balances a largely non-rigorous style — many proofs are sketched only — with appropriate formality and depth. For example, he uses the terminology of groups and finite fields so that the reader can understand both the latest academic research and "real-world" documents such as application programming interface descriptions and cryptographic standards. The text employs colour to distinguish between public and private information, and all chapters include summaries and suggestions for further reading. This is a suitable textbook for advanced undergraduate and graduate students in computer science, mathematics, and engineering, and for self-study by professionals in information security. While the appendix summarizes most of the basic algebra and notation required, it is assumed that the reader has a basic knowledge of discrete mathematics, probability, and elementary calculus. Instant New York Times Bestseller "This book will change your sense of how grand the sweep of human history could do to change it for the better. It's as simple, and as ambitious, as that." —Ezra Klein An Oxford philosopher makes the case for "longtermism" — that positively influencing the long-term future is a key moral priority of our time. The fate of the world is in our hands. Humanity's written history spans only five thousand years. Our yet-unwritten future could lead lives of great happiness or unimaginable suffering, or never live at all, depending on what we choose to do today. In What We Owe The Future, philosopher William MacAskill argues for longtermism, that idea that positively influencing the distant future is a key moral priority of our time. From this perspective, it's not enough to reverse climate change or avert the next pandemic. We must ensure that civilization would rebound if it collapsed; counter the end of moral progress; and prepare for a planet where the smartest beings are digital, not human. If we make wise choices today, our grandchildren will thrive, knowing we did everything we could to give them a world full of justice, hope and beauty. This volume provides a very accessible introduction to the representation theory of reductive algebraic groups. Two ex-Secret Service agents must face a dark world of violence, codes, and spies at a secret CIA training camp in this #1 New York Times bestseller about a mystery that could destroy the nation. Near Washington, D.C., there are two clandestine institutions: the world's most unusual laboratory and a secret CIA training camp. Drawn to these sites by a murder, ex-Secret Service agent Sean King encounters a dark world of mathematicians, codes, and spies. His search for answers soon leads him to more shocking violence-and an autistic girl with an extraordinary genius. Now, only by working with his partner, Michelle Maxwell, who is battling her own personal demons, can he catch a killer...and stop a national threat. Kurt

Vonnegut's masterpiece, Slaughterhouse-Five is "a desperate, painfully honest attempt to confront the monstrous crimes of the twentieth century" (Time), Selected by the Modern Library as one of the world's great antiwar books, Centering on the infamous World War II firebombing of

Dresden, the novel is the result of what Kurt Vonnegut described as a twenty-three-year struggle to write a book about what he had witnessed as an American prisoner of war. It combines historical fiction, autobiography, and satire in an account of the life of Billy Pilgrim, a barber's son turned draftee turned optometrist turned alien abductee. As Vonnegut had, Billy experiences the destruction of Dresden as a POW. Unlike Vonnegut, he experiences time travel, or coming "unstuck in time." An instant bestseller, Slaughterhouse-Five made Kurt Vonnegut a cult hero in American literature, a reputation that only strengthened over time, despite his being banned and censored by some libraries and schools for content and language. But it was precisely those elements of Vonnegut's writing—the political edginess, the genre-bending inventiveness, the frank violence, the transgressive wit—that have inspired generations of readers not just to look differently at the world around them but to find the confidence to say something about it. Authors as wide-ranging as Norman Mailer, John Irving, Michael Crichton, Tim O'Brien, Margaret Atwood, Elizabeth Strout, David Sedaris, Jennifer Egan, and J. K. Rowling have all found inspiration in Vonnegut to be "the great, urgent, passionate American writer of our century, who offers us ... a model of the kind of compassionate thinking that might vet save us from ourselves." More than fifty years after its initial publication at the height of the Vietnam War. Vonnegut's portraval of political disillusionment, PTSD, and postwar anxiety feels as relevant, darkly humorous, and profoundly affecting as ever, an enduring beacon through our own era's uncertainties. The first comprehensive modern introduction to central simple algebra starting from the basics and reaching advanced results. This report from the Committee on Military Nutrition Research reviews the history of caffeine usage, the metabolism of caffeine, and its physiological effects. The effects of caffeine on physical performance, cognitive function and alertness, and alleviation of sleep deprivation impairments are discussed in light of recent scientific literature. The impact of caffeine consumption on various aspects of health, including cardiovascular disease, reproduction, bone mineral density, and fluid homeostasis are reviewed. The behavioral effects of caffeine are also discussed, including the effect of caffeine on reaction to stress, withdrawal effects, and detrimental effects of high intakes. The amounts of caffeine appropriate for maintaining alertness of military personnel during field operations Recommendations are also provided on the need for appropriate labeling of caffeine-containing supplements, and education of military personnel on the use of these supplements, and education of military personnel on the use of these supplements, and education of military personnel on the use of these supplements, and education of military personnel on the use of these supplements, and education of military personnel on the use of these supplements, and education of military personnel on the use of these supplements, and education of military personnel on the use of these supplements. literature—and that has instilled in millions of readers around the world a lifelong love of books. "If you really want to know is where I was born, and what my lousy childhood was like, and how my parents were occupied and all before they had me, and all that David Copperfield kind of crap, but I don't feel like going into it, if you want to know the truth." The hero-narrator of The Catcher in the Rye is an ancient child of sixteen, a native New Yorker named Holden Caufield. Through circumstances that tend to preclude adult, secondhand description, he leaves his prep school in Pennsylvania and goes underground in New York City for three days. Newly revised with a fresh introduction, updated quotes, and a charming, contemporary aesthetic. "Gratitude is the most passionate, transformative force in the Cosmos." This beautiful companion journal to the national bestseller Simple Abundance: A Daybook of Comfort and Joy, the mega-bestselling guide that has led so many women to live fulfilling, harmonious, and joyful lives, has been refreshed for fans of the original Simple Abundance Gratitude Journal -- and a whole new generation of journalers. The Simple Abundance Journal of Gratitude offers insight via uplifting, inspirational quotes and gives women a place to record their daily moments of gratitude. Through daily practice, this journal can help you embrace everyday epiphanies: profound moments of awe that forever alter your experience of the world. Written in the 16th century, The Prince remains one of the most influential books on political theorist, and is considered the father of modern political thought. From the renowned psychologist who introduced the world to "growth mindset" comes this updated edition of the million-copy bestseller—featuring transformative insights into redefining success, building lifelong resilience, and supercharging self-improvement. "Through clever research studies and engaging writing, Dweck illuminates how our beliefs about our capabilities exert tremendous influence on how we learn and which paths we take in life."—Bill Gates, GatesNotes "It's not always the people who start out the smartest." After decades of research, world-renowned Stanford University psychologist Carol S. Dweck, Ph.D., discovered a simple but groundbreaking idea: the power of mindset. In this brilliant book, she shows how success in school, work, sports, the arts, and almost every area of human endeavor can be dramatically influenced by how we think about our talents and abilities are fixed—are less likely to flourish than those with a growth mindset—those who believe that abilities can be developed. Mindset reveals how great parents, teachers, managers, and athletes can put this idea to use to foster outstanding accomplishment. In this edition, Dweck offers new insights into her now famous and broadly embraced concept. She introduces a phenomenon she calls false growth mindset and guides people toward adopting a deeper, truer growth mindset. She also expands the mindset concept beyond the individual, applying it to the cultures of groups and organizations. With the right mindset, you can motivate those you lead, teach, and love—to transform their lives and your own. Written for graduate students and research mathematicians, this monograph is an exposition of the theory of central simple algebras with involution, in relation to linear algebraic groups. Involutions are viewed as twisted forms of hermitian quadrics, leading to new developments on the model of the algebraic theory of quadratic forms. In addition to classical groups, phenomena related to triality are discussed, as well as: groups of type F4 or G2 arising from exceptional Jordan or composition algebras, the discriminant algebra with unitary involution, and the algebra-theoretic counterpart to linear groups of type D4. Annotation copyrighted by Book News, Inc., Portland, OR. The best books around for teaching grammar and Punctuation includes easy-to-understand rules, abundant examples, dozens of reproducible quizzes, and preand post-tests to help teach grammar to middle and high schoolers, college students, homeschoolers, college students, homeschoolers, and more. This concise, entertaining workbook makes learning English grammar and usage simple and fun. This updated 12th edition reflects the latest updates to English usage and grammar, and includes answers to all reproducible quizzes to facilitate selfassessment and learning. Clear and concise, with easy-to-follow explanations, offering "just the facts" on English grammar, punctuation, and usage Fully updated to reflect the latest rules, along with even more quizzes and pre- and post-tests to help teach grammar Ideal for students from seventh grade through adulthood in the US and abroad For anyone who wants to understand the major rules and subtle guidelines of English grammar and usage, The Blue Book of Grammar and usage, The Blue Book of Grammar and usage, The blue Book of Grammar and usage, The other animals are sure that life is improving, but as systems are replaced and half-truths are retold, a new hierarchy emerges ... Orwell's tale of propaganda, power and greed has never felt more pertinent. With an exciting new cover and inside illustrations by superstar Chris Mould. Thoroughly rewritten for today's web environment, this bestselling book offers a fresh look at a fundamental topic of web site development: navigation design. Amid all the changes to the Web in the past decade, and all the hype about Web 2.0 and various "rich" interactive technologies, the basic problems of creating a good web navigation system remain. Designing Web Navigation demonstrates that good navigation is not about technology-it's about the ways people find information, and how you guide them. Ideal for beginning to intermediate web designers, and web development pros looking for another perspective. Designing Web Navigation offers basic design principles, development techniques and practical advice, with real-world examples and essential concepts seamlessly folded in. How does your web site serve your business objectives? How does it meet a user's needs? You'll learn that navigation design touches most other aspects of web navigation and offers a framework for navigation design touches most other aspects of web navigation and basic human information behavior Demonstrates how navigation reflects brand and affects site credibility Helps you understand the problem you're trying to solve before you set out to design Thoroughly reviews the mechanisms and different types of navigation Explains "persuasive" architecture and other design concepts Covers special contexts, such as navigation design for web applications Includes an entire chapter on tagging While Designing Web Navigation focuses on creating navigation systems for large, information-rich sites serving a business purpose, the principles and techniques in the book also apply to small sites. Well researched and cited, this book serves as an excellent reference on the topic, as well as a superb teaching guide. Each chapter ends with suggested reading and a set of questions that offer exercises for experiencing the concepts in action. The Richest Man in the Babylon. This book deals with the personal success. So keep a part of what you earn with yourself. From the benefits of saving to the essentials of getting rich, this collection of educative Babylonian fables gives you timeless information on how to make money. It guides to getting rich, attracting good fortune and the five golden rules. As a guide to understanding hydro-wealth and a powerhouse has been inspiring readers for generations. You know that Babylon became the richest city of the ancient civilization because it had reserved part of its earnings for the future. That's why citizens got everything they wanted. How can you always keep your wallet heavy, the author has taught very beautifully on this topic. Central simple algebras arise naturally in many areas of mathematics. They are closely connected with ring theory, but are also important in representation theory, algebraic geometry and number theory. Recently, surprising applications of the theory of central simple algebras have arisen in the context of coding for wireless communication. The exposition in the book takes advantage of this serendipity, presenting an introduction to the theory of central simple algebras have arisen in the context of coding for wireless communication. theory. Many results or constructions from the standard theory are presented in classical form, but with a focus on explicit techniques and examples, often from coding theory. Topics covered include quaternion algebras with a unitary involution. Code constructions give the opportunity for many examples and explicit computations. This book provides an introduction to the theory of central algebras accessible to graduate students, while also presenting topics in coding theorists interested in learning how division algebras may be useful for coding in wireless communication. The first contribution by Carter covers the theory of finite groups of Lie type, an important field of current mathematical research. In the second part, Platonov and Yanchevskii survey the structure of finite-dimensional division algebras, including an account of reduced K-theory. The first comprehensive, modern introduction to the theory of central simple algebras over arbitrary fields, this book starts from the basics and reaches such advanced results as the Merkuriev-Suslin theorem, a culmination of work initiated by Brauer, Noether, Hasse and Albert, and the starting point of current research in motivic cohomology theory by Voevodsky, Suslin, Rost and others. Assuming only a solid background in algebra, the text covers the basic theory of central simple algebras, methods of Galois descent and Galois cohomology, leading to a full proof of the Merkurjev-Suslin theorem and its application to the characterization of reduced norms. The final chapter rounds off the theory by presenting the results in positive characteristic, including the theorems of Bloch-Gabber-Kato and Izhboldin. This second edition has been carefully revised and updated, and contains important additional topics. Did you ever consider self-publishing your own book but were daunted by the complex process of actually doing it? Self-published author and expert Carla King gives a simple step-by-step guide to self-publishing your book as an e-book or print book. Plot your success by choosing the reputable tools and services recommended here, along with techniques that will help your book succeed in the market that you choose. Noncommutative Rings provides a cross-section of ideas, techniques, and results that give the reader an idea of that part of algebra which concerns itself with noncommutative rings. In the space of 200 pages, Herstein covers the Jacobson radical, semisimple rings, commutativity theorem, and the Golod-Shafarevitch theorem. Almost every practicing ring theorist has studied portions of this classic monograph. From the author of the international bestseller On Tyranny, the definitive history of Hitler's and Stalin's politics of mass killing, explaining why Ukraine has been at the center of Western history for the last century. Americans call the Second World War "the Good War." But before it even began, American's ally Stalin had killed millions of his own citizens—and kept killing them during and after the war. Before Hitler was defeated, he had murdered six million Jews and nearly as many other Europeans. At war's end, German and Soviet killing in darkness. Assiduously researched, deeply humane, and utterly definitive, Bloodlands is a new kind of European history, presenting the mass murders committed by the Nazi and Stalinist regimes as two aspects of a single story. With a new afterword addressing the relevance of these events to the contemporary decline of democracy, Bloodlands is required reading for anyone seeking to understand the central tragedy of modern history and its meaning today. A totalitarian regime has ordered all books to be destroyed, but one of the book burners suddenly realizes their merit

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