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KEY=SCIENCE - WENDY NATHANIAL

THE NEW SCIENCE OF STRONG MATERIALS

OR WHY YOU DON'T FALL THROUGH THE FLOOR

Princeton University Press This new edition of J. E. Gordon's classic introduction to the properties of materials used in engineering answers some fundamental and fascinating questions about how the material world around us functions. In particular, Gordon focuses on so-called strong materials, such as metals, wood, ceramics, glass, and bone. For each material in question, Gordon explains the unique physical and chemical basis for its inherent structural qualities in irrepressibly fresh and simple terms. He also shows how an in-depth understanding of these materials' intrinsic strengths (and weaknesses) guides our engineering choices, allowing us to build the structures that support our modern society. Philip Ball's new introduction describes Gordon's career and the impact of his innovations in materials research, while also discussing how the field has evolved since Gordon wrote this enduring example of first-rate scientific communication.

THE NEW SCIENCE OF STRONG MATERIALS

THE NEW SCIENCE OF STRONG MATERIALS

OR WHY YOU DON'T FALL THROUGH THE FLOOR

THE NEW SCIENCE OF STRONG MATERIALS ; OR WHY YOU DON'T FALL THROUGH THE FLOOR, J.E.GORDON

THE NEW SCIENCE OF STRONG MATERIALS

LEADERSHIP AND THE NEW SCIENCE

DISCOVERING ORDER IN A CHAOTIC WORLD

ReadHowYouWant.com A bestseller--more than 300,000 copies sold, translated into seventeen languages, and featured in the Los Angeles Times, Washington Post, Miami Herald, Harvard Business Review, Fast Company, and Fortune; Shows how discoveries in quantum physics, biology, and chaos theory enable us to deal successfully with change and uncertainty in our organizations and our lives; Includes a new chapter on how the new sciences can help us understand and cope with some of the major social challenges of our timesWe live in a time of chaos, rich in potential for new possibilities. A new world is being born. We need new ideas, new ways of seeing, and new relationships to help us now. New science--the new discoveries in biology, chaos theory, and quantum physics that are changing our understanding of how the world works--offers this guidance. It describes a world

where chaos is natural, where order exists "for free." It displays the intricate webs of cooperation that connect us. It assures us that life seeks order, but uses messes to get there. Leadership and the New Science is the bestselling, most acclaimed, and most influential guide to applying the new science to organizations and management. In it, Wheatley describes how the new science radically alters our understanding of the world, and how it can teach us to live and work well together in these chaotic times. It will teach you how to move with greater certainty and easier grace into the new forms of organizations and communities that are taking shape.

THE NEW SCIENCE OF STRONG MATERIALS

THE NEW SCIENCE OF STRONG MATERIALS

OR WHY YOU DON-T FALL THROUGH THE FLOOR. 2D ED

THE SCIENCE OF STRUCTURES AND MATERIALS

STRUCTURES OR WHY THINGS DON'T FALL DOWN

[Springer Science & Business Media](#) I am very much aware that it is an act of extreme rashness to attempt to write an elementary book about structures. Indeed it is only when the subject is stripped of its mathematics that one begins to realize how difficult it is to pin down and describe those structural concepts which are often called 'elementary'; by which I suppose we mean 'basic' or 'fundamental'. Some of the omissions and oversimplifications are intentional but no doubt some of them are due to my own brute ignorance and lack of understanding of the subject. Although this volume is more or less a sequel to The New Science of Strong Materials it can be read as an entirely separate book in its own right. For this reason a certain amount of repetition has been unavoidable in the earlier chapters. I have to thank a great many people for factual information, suggestions and for stimulating and sometimes heated discussions. Among the living, my colleagues at Reading University have been generous with help, notably Professor W. D. Biggs (Professor of Building Technology), Dr Richard Chaplin, Dr Giorgio Jeronimidis, Dr Julian Vincent and Dr Henry Blyth; Professor Anthony Flew, Professor of Philosophy, made useful suggestions about the last chapter. I am also grateful to Mr John Bartlett, Consultant Neurosurgeon at the Brook Hospital. Professor T. P. Hughes of the University of the West Indies has been helpful about rockets and many other things besides. My secretary, Mrs Jean Collins, was a great help in times of trouble. Mrs Nethercot of Vogue was kind to me about dressmaking. Mr Gerald Leach and also many of the editorial staff of Penguins have exercised their accustomed patience and helpfulness. Among the dead, I owe a great deal to Dr Mark Pryor - lately of Trinity College, Cambridge - especially for discussions about biomechanics which extended over a period of nearly thirty years. Lastly, for reasons which must surely be obvious, I owe a humble oblation to Herodotus, once a citizen of Halicamassus.

SCARCITY

WHY HAVING TOO LITTLE MEANS SO MUCH

[Macmillan](#) A surprising and intriguing examination of how scarcity—and our flawed responses to it—shapes our lives, our society, and our culture

MATERIALS EXPERIENCE

FUNDAMENTALS OF MATERIALS AND DESIGN

[Butterworth-Heinemann](#) There currently exists an abundance of materials selection advice for designers suited to solving technical product requirements. In contrast, a stark gap can be found in current literature that articulates the very real personal, social, cultural and economic connections between materials and the design of the material world. In Materials Experience: fundamentals of materials and design, thirty-four of the leading academicians and experts, alongside 8 professional designers, have come together for the first time to offer their expertise and insights on a number of topics common to materials and product design. The result is a very readable and varied panorama on the world of materials and product design as it currently stands. Contributions by many of the most prominent materials experts and designers in the field today, with a foreword by Mike Ashby The book is organized into 4 main themes: sustainability, user interaction, technology and selection Between chapters, you will find the results of interviews conducted with internationally known designers. These 'designer perspectives' will provide a 'time out' from the academic articles, with emphasis placed on fascinating insights, product examples and visuals

ELECTROCHEMISTRY FOR MATERIALS SCIENCE

[Elsevier](#) This book introduces the principles of electrochemistry with a special emphasis on materials science. This book is clearly organized around the main topic areas comprising electrolytes, electrodes, development of the potential differences in combining electrolytes with electrodes, the electrochemical double layer, mass transport, and charge transfer, making the subject matter more accessible. In the second part, several important areas for materials science are described in more detail. These chapters bridge the gap between the introductory textbooks and the more specialized literature. They feature the electrodeposition of metals and alloys, electrochemistry of oxides and semiconductors, intrinsically conducting polymers, and aspects of nanotechnology with an emphasis on the codeposition of nanoparticles. This book provides a good introduction into electrochemistry for the graduate student. For the research student as well as for the advanced reader there is sufficient information on the basic problems in special chapters. The book is suitable for students and researchers in chemistry, physics, engineering, as well as materials science. - Introduction into electrochemistry - Metal and alloy electrodeposition - Oxides and semiconductors, corrosion - Intrinsically conducting polymers - Codeposition of nanoparticles, multilayers

STRONG SOLIDS

Oxford University Press, USA

GENIUS

THE LIFE AND SCIENCE OF RICHARD FEYNMAN

[Open Road Media](#) New York Times Bestseller: This life story of the quirky physicist is “a thorough and masterful portrait of one of the great minds of the century” (The New York Review of Books). Raised in Depression-era Rockaway Beach, physicist Richard Feynman was irreverent, eccentric, and childishly enthusiastic—a new kind of scientist in a field that was in its infancy. His quick mastery of quantum mechanics earned him a place at Los Alamos working on the Manhattan Project under J. Robert Oppenheimer, where the giddy young man held his own among the nation’s greatest minds. There, Feynman turned theory into practice, culminating in the Trinity test, on July 16, 1945, when the Atomic Age was born. He was only twenty-seven. And he was just getting started. In this sweeping biography, James Gleick captures the forceful personality of a great man, integrating Feynman’s work and life in a way that is accessible to laymen and fascinating for the scientists who follow in his footsteps.

LOVE SENSE

THE REVOLUTIONARY NEW SCIENCE OF ROMANTIC RELATIONSHIPS

[Little, Brown Spark](#) The bestselling author of Hold Me Tight presents a revolutionary new understanding of why and how we love, based on cutting-edge research. Every day, we hear of relationships failing and questions of whether humans are meant to be monogamous. Love Sense presents new scientific evidence that tells us that humans are meant to mate for life. Dr. Johnson explains that romantic love is an attachment bond, just like that between mother and child, and shows us how to develop our "love sense" -- our ability to develop long-lasting relationships. Love is not the least bit illogical or random, but actually an ordered and wise recipe for survival. Love Sense covers the three stages of a relationship and how to best weather them; the intelligence of emotions and the logic of love; the physical and psychological benefits of secure love; and much more. Based on groundbreaking research, Love Sense will change the way we think about love.

APPLIED POLYMER SCIENCE: 21ST CENTURY

[Elsevier](#) The 75th Anniversary Celebration of the Division of Polymeric Materials: Science and Engineering of the American Chemical Society, in 1999 sparked this third edition of Applied Polymer Science with emphasis on the developments of the last few years and a serious look at the challenges and expectations of the 21st Century. This book is divided into six sections, each with an Associate Editor responsible for the contents with the group of Associate Editors acting as a board to interweave and interconnect various topics and to insure complete coverage. These areas represent both traditional areas and emerging areas, but always with coverage that is timely. The areas and associated chapters represent vistas where PMSE and its members have made and are continuing to make vital contributions. The authors are leaders in their fields and have graciously donated their efforts to encourage the scientists of the next 75 years to further contribute to the well being of the society in which we all live. Synthesis, characterization, and application are

three of the legs that hold up a steady table. The fourth is creativity. Each of the three strong legs are present in this book with creativity present as the authors were asked to look forward in predicting areas in need of work and potential applications. The book begins with an introductory history chapter introducing readers to PMSE. The second chapter introduces the very basic science, terms and concepts critical to polymer science and technology. Sections two, three and four focus on application areas emphasizing emerging trends and applications. Section five emphasizes the essential areas of characterization. Section six contains chapters focusing of the synthesis of the materials.

FUNCTIONAL MATERIALS

PREPARATION, PROCESSING AND APPLICATIONS

Elsevier Functional materials have assumed a very prominent position in several high-tech areas. Such materials are not being classified on the basis of their origin, nature of bonding or processing techniques but are classified on the basis of the functions they can perform. This is a significant departure from the earlier schemes in which materials were described as metals, alloys, ceramics, polymers, glass materials etc. Several new processing techniques have also evolved in the recent past. Because of the diversity of materials and their functions it has become extremely difficult to obtain information from single source. Functional Materials: Preparation, Processing and Applications provides a comprehensive review of the latest developments. Serves as a ready reference for Chemistry, Physics and Materials Science researchers by covering a wide range of functional materials in one book Aids in the design of new materials by emphasizing structure or microstructure - property correlation Covers the processing of functional materials in detail, which helps in conceptualizing the applications of them

PLASTICS

MATERIALS AND PROCESSING

Prentice Hall

INTRODUCTION TO MATERIALS SCIENCE

Jacaranda Press

MATERIALS PROCESSING

A UNIFIED APPROACH TO PROCESSING OF METALS, CERAMICS AND POLYMERS

Academic Press Materials Processing is the first textbook to bring the fundamental concepts of materials processing together in a unified approach that highlights the overlap in scientific and engineering principles. It teaches students the key principles involved in the processing of engineering materials, specifically metals, ceramics and polymers, from starting or raw materials through to the final functional forms. Its self-contained approach is based on the state of matter most central to the shaping of the material: melt, solid, powder, dispersion and solution, and vapor. With this approach, students learn processing fundamentals and appreciate the similarities and differences between the materials classes. The book uses a consistent nomenclature that allow for easier comparisons between various materials and processes. Emphasis is on fundamental principles that gives students a strong foundation for understanding processing and manufacturing methods. Development of connections between processing and structure builds on students' existing knowledge of structure-property relationships. Examples of both standard and newer additive manufacturing methods throughout provide students with an overview of the methods that they will likely encounter in their careers. This book is intended primarily for upper-level undergraduates and beginning graduate students in Materials Science and Engineering who are already schooled in the structure and properties of metals, ceramics and polymers, and are ready to apply their knowledge to materials processing. It will also appeal to students from other engineering disciplines who have completed an introductory materials science and engineering course. Coverage of metal, ceramic and polymer processing in a single text provides a self-contained approach and consistent nomenclature that allow for easier comparisons between various materials and processes Emphasis on fundamental principles gives students a strong foundation for understanding processing and manufacturing methods Development of connections between processing and structure builds on students' existing knowledge of structure - property relationships Examples of both standard and newer additive manufacturing methods throughout provide students with an overview of the methods that they will likely encounter in their careers

PHASE-FIELD METHODS IN MATERIALS SCIENCE AND ENGINEERING

John Wiley & Sons This comprehensive and self-contained, one-stop source discusses phase-field methodology in a fundamental way, explaining advanced numerical techniques for solving phase-field and related continuum-field models. It also presents numerical techniques used to simulate various phenomena in a detailed, step-by-step way, such that readers can carry out their own code developments. Features many examples of how the methods explained can be used in materials science and engineering applications.

ADVANCED MATERIALS SCIENCE AND ENGINEERING OF CARBON

Butterworth-Heinemann Carbon materials are exceptionally diverse in their preparation, structure, texture, and applications. In *Advanced Materials Science and Engineering of Carbon*, noted carbon scientist Michio Inagaki and his coauthors cover the most recent advances in carbon materials, including new techniques and processes, carbon materials synthesis, and up-to-date descriptions of current carbon-based materials, trends and applications. Beginning with the synthesis and preparation of nanocarbons, carbon nanotubes, and graphenes, the book then reviews recently developed carbonization techniques, such as templating, electrospinning, foaming, stress graphitization, and the formation of glass-like carbon. The last third of the book is devoted to applications, featuring coverage of carbon materials for energy storage, electrochemical capacitors, lithium-ion rechargeable batteries, and adsorptive storage of hydrogen and methane for environmental protection, photocatalysis, spilled oil recovery, and nuclear applications of isotropic high-density graphite. A progression from synthesis through modern carbonization techniques to applications gives you a thorough understanding of carbon materials. Covers a wide range of precursor materials, preparation techniques, and characteristics to inspire your own development of carbonization techniques, carbon materials and applications. Applications-oriented chapters include timely content on hot topics such as the engineering of carbon nanofibers and carbon materials for various energy-related applications.

A FRAMEWORK FOR K-12 SCIENCE EDUCATION

PRACTICES, CROSSCUTTING CONCEPTS, AND CORE IDEAS

National Academies Press Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, *A Framework for K-12 Science Education* proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. *A Framework for K-12 Science Education* outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. *A Framework for K-12 Science Education* is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

ENCYCLOPEDIA OF MATERIALS SCIENCE AND ENGINEERING

MIT Press (MA) This major eight-volume reference work provides the first unified treatment of an important interdisciplinary field.

THE NEW SCIENCE OF STRONG MATERIALS ; OR, WHY YOU DON'T FALL THROUGH THE FLOOR WHY YOU DON'T FALL THROUGH THE FLOOR

THE SCIENCE OF CAN AND CAN'T

A PHYSICIST'S JOURNEY THROUGH THE LAND OF COUNTERFACTUALS

Penguin A luminous guide to how the radical new science of counterfactuals can reveal that the scope of the universe is greater, and more beautiful, than we ever imagined. There is a vast class of things that science has so far almost entirely neglected. They are central to the understanding of physical reality both at an everyday level and at the level of the most fundamental phenomena in physics, yet have traditionally been assumed to be impossible to incorporate into fundamental scientific explanations. They are facts not about what is (the actual) but about what could be (counterfactuals). According to physicist Chiara Marletto, laws about things being possible or impossible may generate an alternative way of providing explanations. This fascinating, far-reaching approach holds promise for revolutionizing the way fundamental physics is formulated and for providing essential tools to face existing technological challenges--from delivering the next generation of information-processing devices beyond the universal quantum computer to designing AIs. Each chapter in the book delineates how an existing vexed open problem in science can be solved by this radically different approach and it is augmented by short fictional stories that explicate the main point of the chapter. As Marletto demonstrates, contemplating what is possible can give us a more complete and hopeful picture of the physical world.

STUFF MATTERS

EXPLORING THE MARVELOUS MATERIALS THAT SHAPE OUR MAN-MADE WORLD

Houghton Mifflin Harcourt A world-leading materials scientist presents an engrossing collection of stories that explain the science and history of materials, from the plastic in our appliances to the elastic in our underpants, revealing the miracles of engineering that seep into our everyday lives. 25,000 first printing.

REPRODUCIBILITY AND REPLICABILITY IN SCIENCE

National Academies Press One of the pathways by which the scientific community confirms the validity of a new scientific discovery is by repeating the research that produced it. When a scientific effort fails to independently confirm the computations or results of a previous study, some fear that it may be a symptom of a lack of rigor in science, while others argue that such an observed inconsistency can be an important precursor to new discovery. Concerns about reproducibility and replicability have been expressed in both scientific and popular media. As these concerns came to light, Congress requested that the National Academies of Sciences, Engineering, and Medicine conduct a study to assess the extent of issues related to reproducibility and replicability and to offer recommendations for improving rigor and transparency in scientific research. *Reproducibility and Replicability in Science* defines reproducibility and replicability and examines the factors that may lead to non-reproducibility and non-replicability in research. Unlike the typical expectation of reproducibility between two computations, expectations about replicability are more nuanced, and in some cases a lack of replicability can aid the process of scientific discovery. This report provides recommendations to researchers, academic institutions, journals, and funders on steps they can take to improve reproducibility and replicability in science.

TEACHING SCIENCE THROUGH TRADE BOOKS

NSTA Press
 What was your favourite book as a child? In more than 10 years of facilitating workshops, we have never heard anyone reply, My fourth-grade science textbook. Clearly, textbooks have an important place in the science classroom, but using trade books to supplement a textbook can greatly enrich students experience. from *Teaching Science Through Trade Books* If you like the popular Teaching Science Through Trade Books columns in NSTA's journal Science and Children, or if you've become enamoured of the award-winning Picture-Perfect Science Lessons series, you'll love this new collection. It's based on the same time-saving concept: By using children's books to pique students interest, you can combine science teaching with reading instruction in an engaging and effective way. In this volume, column authors Christine Royce, Karen Ansberry, and Emily Morgan selected 50 of their favorites, updated the lessons, and added student activity pages, making it easier than ever to teach fundamental science concepts through high-quality fiction and nonfiction children's books. Just as with the original columns, each lesson highlights two trade books and offers two targeted activities, one for K-3 and one for grades 4-6. All activities are Standards-based and inquiry-oriented. From *Measuring Penny* and *How Tall, How Short, How Far Away?* to *I Took a Walk* and *Secret Place*, the featured books will help your students put science in a whole new context. *Teaching Science Through Trade Books* offers an ideal way to combine well-structured, ready-to-teach lessons with strong curricular connections and books your students just may remember, always.

THE NEW SCIENCE OF STRONG MATERIALS

OR WHY YOU DON'T FALL THROUGH THE FLOOR

TRYING NOT TO TRY

ANCIENT CHINA, MODERN SCIENCE, AND THE POWER OF SPONTANEITY

[Crown](#) A deeply original exploration of the power of spontaneity—an ancient Chinese ideal that cognitive scientists are only now beginning to understand—and why it is so essential to our well-being Why is it always hard to fall asleep the night before an important meeting? Or be charming and relaxed on a first date? What is it about a politician who seems wooden or a comedian whose jokes fall flat or an athlete who chokes? In all of these cases, striving seems to backfire. In *Trying Not To Try*, Edward Slingerland explains why we find spontaneity so elusive, and shows how early Chinese thought points the way to happier, more authentic lives. We've long been told that the way to achieve our goals is through careful reasoning and conscious effort. But recent research suggests that many aspects of a satisfying life, like happiness and spontaneity, are best pursued indirectly. The early Chinese philosophers knew this, and they wrote extensively about an effortless way of being in the world, which they called wu-wei (ooo-way). They believed it was the source of all success in life, and they developed various strategies for getting it and hanging on to it. With clarity and wit, Slingerland introduces us to these thinkers and the marvelous characters in their texts, from the butcher whose blade glides effortlessly through an ox to the wood carver who sees his sculpture simply emerge from a solid block. Slingerland uncovers a direct line from wu-wei to the Force in *Star Wars*, explains why wu-wei is more powerful than flow, and tells us what it all means for getting a date. He also shows how new research reveals what's happening in the brain when we're in a state of wu-wei—why it makes us happy and effective and trustworthy, and how it might have even made civilization possible. Through stories of mythical creatures and drunken cart riders, jazz musicians and Japanese motorcycle gangs, Slingerland effortlessly blends Eastern thought and cutting-edge science to show us how we can live more fulfilling lives. *Trying Not To Try* is mind-expanding and deeply pleasurable, the perfect antidote to our striving modern culture.

MAKE IT STICK

THE SCIENCE OF SUCCESSFUL LEARNING

[Harvard University Press](#) Discusses the best methods of learning, describing how rereading and rote repetition are counterproductive and how such techniques as self-testing, spaced retrieval, and finding additional layers of information in new material can enhance learning.

TOUGHENING MECHANISMS IN COMPOSITE MATERIALS

[Elsevier](#) *Toughening Mechanisms in Composite Materials* aims to provide a comprehensive and technically detailed coverage of composites and their toughening mechanisms. Unique in its direct and comprehensive approach, the book presents fundamental knowledge on composites' toughening mechanisms as well as a comprehensive treatment of numerical methods. This volume summarizes the current state-of-the-art and presents the most recent research outcomes in the field. It details the development of each of the techniques, beginning with basic principles, and new concepts are illustrated with examples wherever possible. Covers particle-reinforced composites, fibre-reinforced composites and other toughening mechanisms Analyses toughening mechanisms in a broad range of composite materials Developments in nanotube toughened composites and toughened graphene ceramic composites are examined

THE GECKO'S FOOT: HOW SCIENTISTS ARE TAKING A LEAF FROM NATURE'S BOOK

[HarperCollins UK](#) A cutting-edge science book in the style of 'Fermat's Last Theorem' and 'Chaos' from an exciting and accessible voice in popular science writing.

AGE LATER

HEALTH SPAN, LIFE SPAN, AND THE NEW SCIENCE OF LONGEVITY

[St. Martin's Press](#) How do some people avoid the slowing down, deteriorating, and weakening that plagues many of their peers decades earlier? Are they just lucky? Or do they know

something the rest of us don't? Is it possible to grow older without getting sicker? What if you could look and feel fifty through your eighties and nineties? Founder of the Institute for Aging Research at the Albert Einstein College of Medicine and one of the leading pioneers of longevity research, Dr. Nir Barzilai's life's work is tackling the challenges of aging to delay and prevent the onset of all age-related diseases including "the big four": diabetes, cancer, heart disease, and Alzheimer's. One of Dr. Barzilai's most fascinating studies features volunteers that include 750 SuperAgers—individuals who maintain active lives well into their nineties and even beyond—and, more importantly, who reached that ripe old age never having experienced cardiovascular disease, cancer, diabetes, or cognitive decline. In *Age Later*, Dr. Barzilai reveals the secrets his team has unlocked about SuperAgers and the scientific discoveries that show we can mimic some of their natural resistance to the aging process. This eye-opening and inspirational book will help you think of aging not as a certainty, but as a phenomenon—like many other diseases and misfortunes—that can be targeted, improved, and even cured.

INTRODUCTION TO MATERIALS SCIENCE AND ENGINEERING

"Updated to reflect the many societal and technological changes in the field since publication of the first edition, *Introduction to Materials Science and Engineering, Second Edition* offers an interdisciplinary view, emphasizing the importance of materials to engineering applications, and builds the basis needed to select, modify, and create materials to meet specific criteria. Written for advanced undergraduate students and readers interested in introductory materials science and engineering concepts, this concise textbook provides a strong foundation in MSE and its applications. The textbook offers a solutions manual and PowerPoint lecture slides for adopting professors"--

CASTE (OPRAH'S BOOK CLUB)

THE ORIGINS OF OUR DISCONTENTS

Random House #1 NEW YORK TIMES BESTSELLER • OPRAH'S BOOK CLUB PICK • NATIONAL BOOK AWARD LONGLIST • "An instant American classic and almost certainly the keynote nonfiction book of the American century thus far."—Dwight Garner, *The New York Times* The Pulitzer Prize-winning, bestselling author of *The Warmth of Other Suns* examines the unspoken caste system that has shaped America and shows how our lives today are still defined by a hierarchy of human divisions. NAMED THE #1 NONFICTION BOOK OF THE YEAR BY TIME, ONE OF THE TEN BEST BOOKS OF THE YEAR BY People • *The Washington Post* • *Publishers Weekly* AND ONE OF THE BEST BOOKS OF THE YEAR BY *The New York Times Book Review* • *O: The Oprah Magazine* • NPR • Bloomberg • *Christian Science Monitor* • *New York Post* • *The New York Public Library* • *Fortune* • *Smithsonian Magazine* • *Marie Claire* • *Town & Country* • *Slate* • *Library Journal* • *Kirkus Reviews* • *LibraryReads* • *PopMatters* Winner of the Los Angeles Times Book Prize • National Book Critics Circle Award Finalist • Dayton Literary Peace Prize Finalist • PEN/John Kenneth Galbraith Award for Nonfiction Finalist • PEN/Jean Stein Book Award Longlist "As we go about our daily lives, caste is the wordless usher in a darkened theater, flashlight cast down in the aisles, guiding us to our assigned seats for a performance. The hierarchy of caste is not about feelings or morality. It is about power—which groups have it and which do not." In this brilliant book, Isabel Wilkerson gives us a masterful portrait of an unseen phenomenon in America as she explores, through an immersive, deeply researched narrative and stories about real people, how America today and throughout its history has been shaped by a hidden caste system, a rigid hierarchy of human rankings. Beyond race, class, or other factors, there is a powerful caste system that influences people's lives and behavior and the nation's fate. Linking the caste systems of America, India, and Nazi Germany, Wilkerson explores eight pillars that underlie caste systems across civilizations, including divine will, bloodlines, stigma, and more. Using riveting stories about people—including Martin Luther King, Jr., baseball's Satchel Paige, a single father and his toddler son, Wilkerson herself, and many others—she shows the ways that the insidious undertow of caste is experienced every day. She documents how the Nazis studied the racial systems in America to plan their out-cast of the Jews; she discusses why the cruel logic of caste requires that there be a bottom rung for those in the middle to measure themselves against; she writes about the surprising health costs of caste, in depression and life expectancy, and the effects of this hierarchy on our culture and politics. Finally, she points forward to ways America can move beyond the artificial and destructive separations of human divisions, toward hope in our common humanity. Beautifully written, original, and revealing, *Caste: The Origins of Our Discontents* is an eye-opening story of people and history, and a reexamination of what lies under the surface of ordinary lives and of American life today.

COME AS YOU ARE

THE BESTSELLING GUIDE TO THE NEW SCIENCE THAT WILL TRANSFORM YOUR SEX LIFE

Scribe Publications A NEW YORK TIMES BESTSELLER An essential exploration of women's sexuality that will radically transform your sex life into one filled with confidence and joy. After all the books that have been written about sex, all the blogs and TV shows and radio Q&As, how can it be that we all still have so many questions? The frustrating reality is

that we've been lied to — not deliberately, it's no one's fault, but still. We were told the wrong story. *Come as You Are* reveals the true story behind female sexuality, uncovering the little-known science of what makes us tick and, more importantly, how and why. Sex educator Dr Emily Nagoski debunks the common sexual myths that are making women (and some men!) feel inadequate between the sheets. Underlying almost all of the questions we still have about sex is the common worry: 'Am I normal?' This book answers with a resounding Yes! We are all different, but we are all normal — and once we learn this, we can create for ourselves better sex and more profound pleasure than we ever thought possible. **PRAISE FOR EMILY NAGOSKI** 'As a literary work, Nagoski's book deserves plaudits for the rare achievement of merging pop science and the sexual self-help genre in prose that's not insufferably twee ... "You are normal!" doesn't sound much like a battlecry, but in a world keen to sexually homogenise women from the gap of their thighs to the shape of their mons pubis, the sentiment lands like a bomb.' *The Guardian* 'Come As You Are screams female empowerment loud and proud.' *The Independent*

WHAT IF?

SERIOUS SCIENTIFIC ANSWERS TO ABSURD HYPOTHETICAL QUESTIONS

Houghton Mifflin Harcourt The creator of the incredibly popular webcomic xkcd presents his heavily researched answers to his fans' oddest questions, including "What if I took a swim in a spent-nuclear-fuel pool?" and "Could you build a jetpack using downward-firing machine guns?" 100,000 first printing.