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Faith and the Good Thing

At the beginning of the homelessness epidemic in the 1980s, Josephine Ensign was a young, white, Southern, Christian wife, mother, and nurse running a new medical clinic for the homeless in the heart of the South. Through her work and intense relationships with patients and co-workers, her worldview was shattered, and after losing her job, family, and house, she became homeless herself. She reconstructed her life with altered views on homelessness—and on the health care system. In *Catching Homelessness*, Ensign reflects on how this work has changed her and how her work has changed through the experience of being homeless—providing a piercing look at the homelessness industry, nursing, and our country's health care safety net.

Modeling and Simulation for Electric Vehicle Applications

The book presents interesting topics from the area of modeling and simulation of electric vehicles application. The results presented by the authors of the book chapters are very interesting and inspiring. The book will familiarize the readers with the solutions and enable the readers to enlarge them by their own research. It will be useful for students of Electrical Engineering; it helps them solve practical problems.

Electronic Composites

A few lawsuits have changed the entire shape of the computer industry and nearly every aspect of computers has come under litigation. These legal struggles have confused computer and legal amateurs as well as many lawyers, juries, and judges. Graham surveys the industry's legal past and shows how it frames the

future. His book is a comprehensive and fascinating study of this dynamic and contentious industry.

Ropos and the Underwater Volcano

No nation was more deeply affected by America's rise to power than Japan. The price paid to end the most intrusive reconstruction of a nation in modern history was a cold war alliance with the U.S. that ensured American dominance in the region. Kenneth Pyle offers a thoughtful history of this relationship at a time when the alliance is changing.

STEM Integration in K-12 Education

Navigating the Talent Shift

In 1887, more than 30 Chinese gold miners were massacred on the Oregon side of Hells Canyon, the deepest canyon in North America. *Massacred for Gold*, the first authoritative account of the unsolved crime--one of the worst of the many crimes committed by whites against Chinese laborers in the American West--unearths the evidence that points to an improbable gang of rustlers and schoolboys, one only 15, as the killers. The crime was discovered weeks after it happened, but no charges were brought for nearly a year, when gang member Frank Vaughan, son of a well-known settler family, confessed and turned state's evidence. Six men and boys, all from northeastern Oregon's remote Wallowa country, were charged--but three fled, and the others were found innocent by a jury that a witness admitted had little interest in convicting anyone. A cover-up followed, and the crime was all but forgotten for the next 100 years, until a county clerk found hidden records in an unused safe. In bringing this story out of the shadows, Nokes examines the once-substantial presence of Chinese laborers in the interior Pacific Northwest, describing why they came, how their efforts contributed to the region's development, and how too often mistreatment and abuse were their only reward.

Flying Free

This book presents Maple solutions to a wide range of problems relevant to chemical engineers and others. Many of these solutions use Maple's symbolic capability to help bridge the gap between analytical and numerical solutions. The readers are strongly encouraged to refer to the references included in the book for a better understanding of the physics involved, and for the mathematical analysis. This book was written for a senior undergraduate or a first year graduate student course in chemical engineering. Most of the examples in this book were done in Maple 10. However, the codes should run in the most recent version of Maple. We strongly encourage the readers to use the classic worksheet (*.mws) option in Maple as we believe it is more user-friendly and robust. In chapter one you will find an introduction to Maple which includes simple basics as a convenience for the reader such as plotting, solving linear and nonlinear equations, Laplace transformations, matrix operations, 'do loop,' and 'while loop.' Chapter two presents linear ordinary differential equations in section 1 to include homogeneous

and nonhomogeneous ODEs, solving systems of ODEs using the matrix exponential and Laplace transform method. In section two of chapter two, nonlinear ordinary differential equations are presented and include simultaneous series reactions, solving nonlinear ODEs with Maple's 'dsolve' command, stop conditions, differential algebraic equations, and steady state solutions. Chapter three addresses boundary value problems.

Leopoldo Méndez

A proposal to redefine design in a way that not only challenges the field's dominant paradigms but also changes the practice of design itself. In *Critical Fabulations*, Daniela Rosner proposes redefining design as investigative and activist, personal and culturally situated, responsive and responsible. Challenging the field's dominant paradigms and reinterpreting its history, Rosner wants to change the way we historicize the practice, reworking it from the inside. Focusing on the development of computational systems, she takes on powerful narratives of innovation and technology shaped by the professional expertise that has become integral to the field's mounting status within the new industrial economy. To do so, she intervenes in legacies of design, expanding what is considered "design" to include long-silenced narratives of practice, and enhancing existing design methodologies based on these rediscovered inheritances. Drawing on discourses of feminist technoscience, she examines craftwork's contributions to computing innovation--how craftwork becomes hardware manufacturing, and how hardware manufacturing becomes craftwork.

International Dictionary of Library Histories

Information literacy--the ability to find, evaluate, and use information resources--is an important skill for future chemists. Students and scientists need to distinguish between information provided by Wikipedia, ChemSpider, research journals, and The New York Times, depending on the intended use of the information sought. Instructors and librarians may often teach these skills through stand-alone database demonstrations, video tutorials, and lectures. However, it is possible to teach these skills in a more contextual and integrated manner by designing chemistry assignments that incorporate information literacy as a learning outcome. This book will prove useful for librarians and chemistry instructors who are designing courses in which students develop information literacy in the context of a chemistry course at two-year colleges, public and private universities, and high schools. The chapters in this book review the current state of information literacy in chemistry and provide concrete examples of assignments and interventions aimed at teaching information literacy skills in chemistry curricula. A wide range of options are offered for integrating information literacy into college-level chemistry courses, including general chemistry, organic chemistry, science courses for students not majoring in science, and chemistry capstone research courses.

Catching Homelessness

By 2020, 40 percent of the workforce won't want to be your employee. That means managers and executives have to forget the old recruit-and-search-for-months

methods to acquire talent and revise their perception that “talent” is only full-time employees. The good news is that this talent allows you to achieve the biggest impact on your projects in the fastest time possible. In *Navigating the Talent Shift*, author Lisa Hufford introduces you to SPEED: a fast, and flexible talent strategy that shows companies how to access the 65 million people that make up the on-demand, specialized talent pool. This strategy shows you how to:

- Stop spending months searching for talent
- Have a team of on-demand talent at your fingertips
- Exponentially expand your talent pool
- Test ideas and change direction fast to stay competitive and drive innovation
- Reduce severance and layoffs
- Bring a fresh perspective with strategic doers on your team
- Do more with less

Navigating the Talent Shift will show you and your team how to tap into an on-demand workforce while providing you with the talent you need to be nimble and successful.

Value Sensitive Design

This sweet rhyming padded board book is perfect for cranky kiddos not quite ready for bed -- it's *The Pout-Pout Fish* for the preschool set! Cranky Crab is NOT ready for bed. The sea creatures around him are all drifting off to sleep, but he just wants to eat snacks and play! Maybe what he really needs is a bedtime kiss! Follow Cranky Crab as he travels past dolphins, starfish, seals, and more, all snuggling down in their habitats. As night falls, the water darkens and colors change, lulling Cranky Crab -- and the reader -- to sleep. This sweet, rhyming text is brought to life in unique, soft technicolor, and the dreamy underwater world will soothe even the crankiest little crabs!

Learn 2D Game Development with C#

The daughter of a Chilean father and a Filipina mother, Cecilia Rodriguez Aragon grew up as a shy, timid child in a small midwestern town during the 1960s. Targeted by school bullies and dismissed by many of her teachers, she worried that people would find out the truth: that she was INTF. Incompetent. Nerd. Terrified. Failure. This feeling stayed with her well into her twenties when she was told that “girls can’t do science” or “women just don’t know how to handle machines.” Yet in the span of just six years, Cecilia became the first Latina pilot to secure a place on the United States Unlimited Aerobatic Team and earn the right to represent her country at the Olympics of aviation, the World Aerobatic Championships. How did she do it? Using mathematical techniques to overcome her fear, Cecilia performed at air shows in front of millions of people. She jumped out of airplanes and taught others how to fly. She learned how to fund-raise and earn money to compete at the world level. She worked as a test pilot and contributed to the design of experimental airplanes, crafting curves of metal and fabric that shaped air to lift inanimate objects high above the earth. And best of all, she surprised everyone by overcoming the prejudices people held about her because of her race and her gender. *Flying Free* is the story of how Cecilia Aragon broke free from expectations and rose above her own limits by combining her passion for flying with math and logic in unexpected ways. You don’t have to be a math whiz or a science geek to learn from her story. You just have to want to soar.

Integrating Information Literacy Into the Chemistry Curriculum

Grandfather says this: “In life there is sadness as well as joy, losing as well as winning, falling as well as standing, hunger as well as plenty, bad as well as good. I do not say this to make you despair, but to teach you...that life is a journey sometimes walked in light and sometimes in shadow.” Grandfather says this: “Keep going.” These thought-provoking lessons, passed down by the author’s own Lakota grandfather, will inspire the hundreds of thousands who already know his work—and will tap into the market that has embraced such books as Oriah Mountain Dreamer’s *The Invitation*. When a young man’s father dies, he turns to his sagacious grandfather for comfort. Together they sit underneath the family’s cottonwood tree, and the grandfather shares his perspective on life, the perseverance it requires, and the pleasure and pain of the journey. Filled with dialogue, stories, and recollections, each section focuses on a portion of the prose poem “Keep Going” and provides commentary on the text. Readers will draw comfort, knowledge, and strength from the Grandfather’s wise words—just as Marshall himself did.

Physics Around Us: How And Why Things Work

This undergraduate-level computer graphics text provides the reader with conceptual and practical insights into how to approach building a majority of the interactive graphics applications they encounter daily. As each topic is introduced, students are guided in developing a software library that will support fast prototyping of moderately complex applications using a variety of APIs, including OpenGL and DirectX.

Critical Fabulations

Discover the foundation, power, and necessity of visual communication with this essential guide. Visual communication has changed. It’s gone from being an optional medium for relaying information to an important method for building connections and increasing understanding. We now use visual storytelling to help us establish and strengthen relationships, engage distracted audiences, and bring clarity to complexity. *Killer Visual Strategies* examines how visual communication has transformed how brands connect with their customers and colleagues alike. It looks at the growing audience demand for quality visual content and how organizations must meet this demand or risk being left behind. *Killer Visual Strategies* traces the history of visual communication and explores why it now plays an integral role in our daily lives. As Amy Balliett tells the story of this evolving medium, she naturally incorporates visuals, such as timelines and data visualizations throughout. In addition to providing actionable rules to follow for creating high-impact visual content, Balliett also explores the latest trends, including visual search, augmented reality (AR), and virtual reality (VR). Then, she looks forward to what lies ahead in this dynamic field. The book’s topics can benefit readers in a range of professions where visual content is now vital to sharing a message. Learn best practices for visual communication Gain inspiration from countless visual examples Stay on top of the latest trends in visual communication Understand visual communication for marketing, sales, design, HR,

and more Killer Visual Strategies provides a clearer picture of the evolution of visual communication as a fundamental part of how a story is told.

A Spark of Death

Monografie over leven en werk van de Mexicaanse prentkunstenaar (1902-1969), met de nadruk op de jaren dertig en veertig waarin hij politiek zeer actief was. Ook de invloeden van en naar andere kunstenaars uit zijn tijd komen aan bod.

The Chapel of St. Ignatius

Once known as a “drug capital” and associated with kidnappings, violence, and excess, Bogotá, Colombia, has undergone a transformation that some have termed “the miracle of Bogotá.” Beginning in the late 1980s, the city emerged from a long period of political and social instability to become an unexpected model of urban development through the redesign and revitalization of the public realm—parks, transportation, and derelict spaces—under the leadership of two “public space mayors,” Antanas Mockus and Enrique Peñalosa (the latter reelected in 2015). In *Learning from Bogotá*, Rachel Berney analyzes how these mayors worked to reconfigure the troubled city into a pedagogical one whose public spaces and urban policy have helped shape a more tolerant and aware citizenry. Berney examines the contributions of Mockus and Peñalosa through the lenses of both spatial/urban design and the city’s history. She shows how, through the careful intertwining of new public space and transportation projects, the reclamation of privatized public space, and the refurbishment of dilapidated open spaces, the mayors enacted an ambitious urban vision for Bogotá without resorting to the failed method of the top-down city master plan. Illuminating the complex interplay between formal politics, urban planning, and improvised social strategies, as well as the negative consequences that accompanied Bogotá’s metamorphosis, *Learning from Bogotá* offers significant lessons about the possibility for positive and lasting change in cities around the world.

Educational Communities of Inquiry: Theoretical Framework, Research and Practice

Our newly updated, Peterson's Cool Colleges 2013, features colorful, easy-to-read profiles of hundreds of "cool" colleges and universities across the United States and abroad. You're about to make one of the most important decisions of your life, and you need the best information possible. Peterson's guide can help you make that choice with hundreds of school photos that provide a preview of campus and student life, enlightening articles on applying to the cool college that's right for you, and information on what life is really like on campus—from sports arenas to dining facilities.

Thermodynamic Properties of Solids

Professor Benjamin Bradshaw sets out to clear his name after becoming the only suspect in the murder of an unpopular colleague, whom he discovered electrocuted in a Faraday cage on campus.

Keep Going

Communications technologies have been continuously integrated into learning and training environments which has revealed the need for a clear understanding of the process. The Community of Inquiry (COI) Theoretical Framework has a philosophical foundation which provides planned guidelines and principles to development useful learning environments and guarantees successful educational experiences. Educational Communities of Inquiry: Theoretical Framework, Research, and Practice is an extensive reference that offers theoretical foundations and developments associated with the COI theoretical framework. This collection is a valuable source of ideas, research opportunities, and challenges for scholars and practitioners in the field of education technology.

Massacred for Gold

Students and researchers looking for a comprehensive textbook on magnetism, magnetic materials and related applications will find in this book an excellent explanation of the field. Chapters progress logically from the physics of magnetism, to magnetic phenomena in materials, to size and dimensionality effects, to applications. Beginning with a description of magnetic phenomena and measurements on a macroscopic scale, the book then presents discussions of intrinsic and phenomenological concepts of magnetism such as electronic magnetic moments and classical, quantum, and band theories of magnetic behavior. It then covers ordered magnetic materials (emphasizing their structure-sensitive properties) and magnetic phenomena, including magnetic anisotropy, magnetostriction, and magnetic domain structures and dynamics. What follows is a comprehensive description of imaging methods to resolve magnetic microstructures (domains) along with an introduction to micromagnetic modeling. The book then explores in detail size (small particles) and dimensionality (surface and interfaces) effects — the underpinnings of nanoscience and nanotechnology that are brought into sharp focus by magnetism. The hallmark of modern science is its interdisciplinarity, and the second half of the book offers interdisciplinary discussions of information technology, magnetoelectronics and the future of biomedicine via recent developments in magnetism. Modern materials with tailored properties require careful synthetic and characterization strategies. The book also includes relevant details of the chemical synthesis of small particles and the physical deposition of ultra thin films. In addition, the book presents details of state-of-the-art characterization methods and summaries of representative families of materials, including tables of properties. CGS equivalents (to SI) are included.

Exploring General Chemistry in the Laboratory

This book contains the papers that were presented at the XIIIth International Symposium on Hearing (ISH), which was held in Dourdan, France, between August 24 and 29, 2003. From its first edition in 1969, the Symposium has had a distinguished tradition of bringing together auditory psychologists and physiologists. Hearing science now also includes computational modeling and brain imaging, and this is reflected in the papers collected. The rich interactions between participants during the meeting were yet another indication of the appositeness of

the original idea to confront approaches around shared scientific issues. A total of 62 solicited papers are included, organized into 12 broad thematic areas ranging from cochlear signal processing to plasticity and perceptual learning. The themes follow the sessions and the chronological order of the paper presentations during the symposium. A notable feature of the ISH books is the transcription of the discussions between participants. A draft version of the book is circulated before the meeting, and all participants are invited to make written comments, before or during the presentations. This particularity is perhaps what makes the ISH book series so valuable as a truthful picture of the evolution of issues in hearing science. We tried to uphold this tradition, which was all the easier because of the excellent scientific content of the discussions.

When Ivory Towers Were Black

A brand-new edition of the classic guide on low-speed wind tunnel testing While great advances in theoretical and computational methods have been made in recent years, low-speed wind tunnel testing remains essential for obtaining the full range of data needed to guide detailed design decisions for many practical engineering problems. This long-awaited Third Edition of William H. Rae, Jr.'s landmark reference brings together essential information on all aspects of low-speed wind tunnel design, analysis, testing, and instrumentation in one easy-to-use resource. Written by authors who are among the most respected wind tunnel engineers in the world, this edition has been updated to address current topics and applications, and includes coverage of digital electronics, new instrumentation, video and photographic methods, pressure-sensitive paint, and liquid crystal-based measurement methods. The book is organized for quick access to topics of interest, and examines basic test techniques and objectives of modeling and testing aircraft designs in low-speed wind tunnels, as well as applications to fluid motion analysis, automobiles, marine vessels, buildings, bridges, and other structures subject to wind loading. Supplemented with real-world examples throughout, *Low-Speed Wind Tunnel Testing, Third Edition* is an indispensable resource for aerospace engineering students and professionals, engineers and researchers in the automotive industries, wind tunnel designers, architects, and others who need to get the most from low-speed wind tunnel technology and experiments in their work.

Bedtime for Cranky Crab

Recent years have seen a growing interest in the field of thermodynamic properties of solids due to the development of advanced experimental and modeling tools. Predicting structural phase transitions and thermodynamic properties find important applications in condensed matter and materials science research, as well as in interdisciplinary research involving geophysics and Earth Sciences. The present edited book, with contributions from leading researchers around the world, is aimed to meet the need of academic and industrial researchers, graduate students and non-specialists working in these fields. The book covers various experimental and theoretical techniques relevant to the subject.

Legal Battles that Shaped the Computer Industry

This book is suitable for a first year, non-calculus physics course. It covers mechanics, fluids, gravitation, thermal physics, electricity and magnetism, and modern physics, including atoms, an introduction to quantum mechanics, special relativity, and nuclear and particle physics. Trigonometric functions and vectors are introduced as needed.

Low-Speed Wind Tunnel Testing

This book is the first systematic exposition on the emerging domain of wireless power transfer in ad hoc communication networks. It selectively spans a coherent, large spectrum of fundamental aspects of wireless power transfer, such as mobility management in the network, combined wireless power and information transfer, energy flow among network devices, joint activities with wireless power transfer (routing, data gathering and solar energy harvesting), and safety provisioning through electromagnetic radiation control, as well as fundamental and novel circuits and technologies enabling the wide application of wireless powering. Comprising a total of 27 chapters, contributed by leading experts, the content is organized into six thematic sections: technologies, communication, mobility, energy flow, joint operations, and electromagnetic radiation awareness. It will be valuable for researchers, engineers, educators, and students, and it may also be used as a supplement to academic courses on algorithmic applications, wireless protocols, distributed computing, and networking.

Citizens of Scandal

Bullshit isn't what it used to be. Now, two science professors give us the tools to dismantle misinformation and think clearly in a world of fake news and bad data. Misinformation, disinformation, and fake news abound and it's increasingly difficult to know what's true. Our media environment has become hyperpartisan. Science is conducted by press release. Startup culture elevates bullshit to high art. We are fairly well equipped to spot the sort of old-school bullshit that is based in fancy rhetoric and weasel words, but most of us don't feel qualified to challenge the avalanche of new-school bullshit presented in the language of math, science, or statistics. In *Calling Bullshit*, Professors Carl Bergstrom and Jevin West give us a set of powerful tools to cut through the most intimidating data. You don't need a lot of technical expertise to call out problems with data. Are the numbers or results too good or too dramatic to be true? Is the claim comparing like with like? Is it confirming your personal bias? Drawing on a deep well of expertise in statistics and computational biology, Bergstrom and West exuberantly unpack examples of selection bias and muddled data visualization, distinguish between correlation and causation, and examine the susceptibility of science to modern bullshit. We have always needed people who call bullshit when necessary, whether within a circle of friends, a community of scholars, or the citizenry of a nation. Now that bullshit has evolved, we need to relearn the art of skepticism.

Fundamentals and Applications of Magnetic Materials

In *Citizens of Scandal*, Vanessa Freije explores the causes and consequences of political scandals in Mexico from the 1960s through the 1980s. Tracing the process by which Mexico City reporters denounced official wrongdoing, she shows that by the 1980s political scandals were a common feature of the national media diet. News stories of state embezzlement, torture, police violence, and electoral fraud provided collective opportunities to voice dissent and offered an important, though unpredictable and inequitable, mechanism for political representation. The publicity of wrongdoing also disrupted top-down attempts by the ruling Partido Revolucionario Institucional to manage public discourse, exposing divisions within the party and forcing government officials to grapple with popular discontent. While critical reporters denounced corruption, they also withheld many secrets from public discussion, sometimes out of concern for their safety. Freije highlights the tensions—between free speech and censorship, representation and exclusion, and transparency and secrecy—that defined the Mexican public sphere in the late twentieth century.

Writing from Research

2D games are hugely popular across a wide range of platforms and the ideal place to start if you're new to game development. With *Learn 2D Game Development with C#*, you'll learn your way around the universal building blocks of game development, and how to put them together to create a real working game. C# is increasingly becoming the language of choice for new game developers. Productive and easier to learn than C++, C# lets you get your games working quickly and safely without worrying about tricky low-level details like memory management. This book uses MonoGame, an open source framework that's powerful, free to use and easy to handle, to further reduce low-level details, meaning you can concentrate on the most interesting and universal aspects of a game development: frame, camera, objects and particles, sprites, and the logic and simple physics that determines how they interact. In each chapter, you'll explore one of these key elements of game development in the context of a working game, learn how to implement the example for yourself, and integrate it into your own game library. At the end of the book, you'll put everything you've learned together to build your first full working game! And what's more, MonoGame is designed for maximum cross-platform support, so once you've mastered the fundamentals in this book, you'll be ready to explore and publish games on a wide range of platforms including Windows 8, MAC OSX, Windows Phone, iOS, Android, and Playstation Mobile. Whether you're starting a new hobby or considering a career in game development, *Learn 2D Game Development with C#* is the ideal place to start.

The Last Stargazers

STEM Integration in K-12 Education examines current efforts to connect the STEM disciplines in K-12 education. This report identifies and characterizes existing approaches to integrated STEM education, both in formal and after- and out-of-school settings. The report reviews the evidence for the impact of integrated approaches on various student outcomes, and it proposes a set of priority research questions to advance the understanding of integrated STEM education. *STEM Integration in K-12 Education* proposes a framework to provide a common

perspective and vocabulary for researchers, practitioners, and others to identify, discuss, and investigate specific integrated STEM initiatives within the K-12 education system of the United States. STEM Integration in K-12 Education makes recommendations for designers of integrated STEM experiences, assessment developers, and researchers to design and document effective integrated STEM education. This report will help to further their work and improve the chances that some forms of integrated STEM education will make a positive difference in student learning and interest and other valued outcomes.

Cool Colleges 2013

Following the format of Fitzroy Dearborn's highly successful International Dictionary of Historic Places and International Dictionary of University Histories, the International Dictionary of Library Histories provides basic information for each institution - location and holdings - followed by an extensive (1,000-5,000 word) essay on its history as well as a Further Reading list. In addition, the dictionary includes introductory articles on the history of various types of libraries and a library history in various regions of the world. The dictionary profiles more than 200 institutions from around the world, including the world's most important research libraries and other libraries with globally or regionally notable collections, innovative traditions, and significant and interesting histories. The essays take advantage of the growing scholarship of library history to provide insightful overviews of each institution, including not only the traditional values of these libraries but their innovations as well, such as developments in automated systems and electronic delivery. The profiles will emphasize the unique materials of research in these institutions - archives, manuscripts, personal and institutional papers. The introductory articles on types of libraries include topics ranging from theological libraries to prison libraries, from the ancient to the digital. An international team of more than 200 leading scholars in the field have contributed essays to the project.

Killer Visual Strategies

ROPOS stands for Remotely Operated Platform for Ocean Sciences. It's an unmanned underwater vehicle that allows scientists to explore the depths of the ocean to learn about the creatures that live there and features such as volcanoes that shape the ocean floor.

Essentials of Interactive Computer Graphics

Reveals Holl's working method from watercolor sketches to working drawings to construction shots.

Why Business Matters to God

Jeff Van Duzer grew up thinking business was the source of much damage and evil in the world, the work of greedy capitalists polluting the environment. Thirty years later he was dean of a business school. In the course of that remarkable transformation, Van Duzer found cause for both hope and concern. He discovered

many business people achieving a great deal of good for society as well as a lot of illegal and unethical behavior. Along the way he found some who thought that merely being honest and kind was what made business Christian. Others said they'd never ask pastors for business advice because they had no interest or experience in their work. After all, wasn't "full-time Christian service" what the church was all about? This book explores the nature and meaning of doing business and finds it calls for much more than most think. Van Duzer presents a profoundly Christian approach that integrates biblical studies with the disciplines of business and economics. Looking beyond the place of ethical principles and the character of the individual, Van Duzer displays a vision of business that contributes to the very purposes of God.

Learning from Bogotá

This laboratory manual is intended for a two-semester general chemistry course. The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life. This lab manual covers topics such as composition of compounds, reactivity, stoichiometry, limiting reactants, gas laws, calorimetry, periodic trends, molecular structure, spectroscopy, kinetics, equilibria, thermodynamics, electrochemistry, intermolecular forces, solutions, and coordination complexes. By the end of this course, you should have a solid understanding of the basic concepts of chemistry, which will give you confidence as you embark on your career in science.

Computational Methods in Chemical Engineering with Maple

When Ivory Towers Were Black lies at the potent intersection of race, urban development, and higher education. It tells the story of how an unparalleled cohort of ethnic minority students earned degrees from a world-class university. The story takes place in New York City at Columbia University's School of Architecture and spans a decade of institutional evolution that mirrored the emergence and denouement of the Black Power Movement. Chronicling a surprisingly little-known era in U.S. educational, architectural, and urban history, the book traces an evolutionary arc that begins with an unsettling effort to end Columbia's exercise of authoritarian power on campus and in the community, and ends with an equally unsettling return to the status quo. When Ivory Towers Were Black follows two university units that steered the School of Architecture toward an emancipatory approach to education early along its evolutionary arc: the school's Division of Planning and the university-wide Ford Foundation-funded Urban Center. It illustrates both units' struggle to open the ivory tower to ethnic minority students and to involve them, and their revolutionary white peers, in improving Harlem's slum conditions. The evolutionary arc ends as backlash against reforms wrought by civil rights legislation grew and whites bought into President Richard M. Nixon's law-and-order agenda. The story is narrated through the oral histories of twenty-four Columbia alumni who received the gift of an Ivy League education during this era of transformation but who exited the School of Architecture to find the doors of their careers all but closed due to Nixon-era urban disinvestment policies. When Ivory Towers Were Black assesses the triumphs and subsequent unraveling of this bold experiment to achieve racial justice in the school and in the nearby Harlem/East Harlem community. It demonstrates how the experiment's triumphs

lived on not only in the lives of the ethnic minority graduates but also as best practices in university/community relationships and in the fields of architecture and urban planning. The book can inform contemporary struggles for racial and economic equality as an array of crushing injustices generate movements similar to those of the 1960s and '70s. Its first-person portrayal of how a transformative process was reversed can help extend the period of experimentation, and it can also help reopen the door of opportunity to ethnic minority students, who are still in strikingly short supply in elite professions like architecture and planning.

Japan in the American Century

Faith Cross, a beautiful and purely innocent young black woman, is told by her dying mother to go and get herself "a good thing." Thus begins an extraordinary pilgrim's progress that takes Faith from the magic and mysticism of the rural South to the promises and perils of modern-day Chicago. It is an odyssey that propels Faith from the degradation of prostitution, drugs, and drink into a faceless middle-class reality, and finally into a searing tragedy that ironically leads to the discovery of the real Good Thing. National Book Award-winner Charles Johnson's first novel, originally published in 1974, puts the life-affirming soul of the African-American experience at the summit of American storytelling.

Auditory Signal Processing

The story of the people who see beyond the stars Humans from the earliest civilizations were spellbound by the night sky-craning their necks each night, they used the stars to orient themselves in the large, strange world around them. Stargazing is a pursuit that continues to fascinate us: from Copernicus to Carl Sagan, astronomers throughout history have spent their lives trying to answer the biggest questions in the universe. Now, award-winning astronomer Emily Levesque shares the stories of modern-day stargazers, the people willing to adventure across high mountaintops and to some of the most remote corners of the planet, all in the name of science. From the lonely quiet of midnight stargazing to tall tales of wild bears loose in the observatory, *The Last Stargazers* is a love letter to astronomy and an affirmation of the crucial role that humans can and must play in the future of scientific discovery. In this sweeping work of narrative science, Levesque shows how astronomers in this scrappy and evolving field are going beyond the machines to infuse creativity and passion into the stars and inspires us all to peer skyward in pursuit of the universe's secrets.

Wireless Power Transfer Algorithms, Technologies and Applications in Ad Hoc Communication Networks

Using our moral and technical imaginations to create responsible innovations: theory, method, and applications for value sensitive design. Implantable medical devices and human dignity. Private and secure access to information. Engineering projects that transform the Earth. Multigenerational information systems for international justice. How should designers, engineers, architects, policy makers, and others design such technology? Who should be involved and what values are implicated? In *Value Sensitive Design*, Batya Friedman and David Hendry describe

how both moral and technical imagination can be brought to bear on the design of technology. With value sensitive design, under development for more than two decades, Friedman and Hendry bring together theory, methods, and applications for a design process that engages human values at every stage. After presenting the theoretical foundations of value sensitive design, which lead to a deep rethinking of technical design, Friedman and Hendry explain seventeen methods, including stakeholder analysis, value scenarios, and multilifespan timelines. Following this, experts from ten application domains report on value sensitive design practice. Finally, Friedman and Hendry explore such open questions as the need for deeper investigation of indirect stakeholders and further method development. This definitive account of the state of the art in value sensitive design is an essential resource for designers and researchers working in academia and industry, students in design and computer science, and anyone working at the intersection of technology and society.

Calling Bullshit

Electronic composites, whose properties can be controlled by thermal or electromagnetic means, play an important role in micro- and nano-electromechanical systems (MEMS/NEMS) such as sensors, actuators, filters and switches. This 2005 book describes the processing, simulation, and applications of electronic composites. The book begins with a review of the mechanical, thermal, electromagnetic and coupling behaviour of electronic composites. Their major applications are then discussed. Key simulation models are described in detail and illustrated by reference to real examples. The book closes with a discussion of electronic composite processing, including MEMS design and packaging. The book contains a comprehensive list of references and is aimed at graduate students of electrical engineering and materials science. It will also be a useful reference for researchers and engineers in the MEMS industry.

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