

The Stanford Lasses

Uses psychological and philosophical frameworks to teach readers how to make strategic, principled decisions as they lead with values.

Are all film stars linked to Kevin Bacon? Why do the stock markets rise and fall sharply on the strength of a vague rumour? How does gossip spread so quickly? Are we all related through six degrees of separation? There is a growing awareness of the complex networks that pervade modern society. We see them in the rapid growth of the Internet, the ease of global communication, the swift spread of news and information, and in the way epidemics and financial crises develop with startling speed and intensity. This introductory book on the new science of networks takes an interdisciplinary approach, using economics, sociology, computing, information science and applied mathematics to address fundamental questions about the links that connect us, and the ways that our decisions can have consequences for others.

Indebtedness, like inequality, has become a ubiquitous condition in the United States. Yet few have probed American cities' dependence on municipal debt or how the terms of municipal finance structure racial privileges, entrench spatial neglect, elide democratic input, and distribute wealth and power. In this passionate and deeply researched book, Destin Jenkins shows in vivid detail how, beyond the borrowing decisions of American cities and beneath their quotidian infrastructure, there lurks a world of politics and finance that is rarely seen, let alone understood. Focusing on San Francisco, *The Bonds of Inequality* offers a singular view of the postwar city, one where the dynamics that drove its creation encompassed not only local politicians but also banks, credit rating firms, insurance companies, and the national municipal bond market. Moving between the local and the national, *The Bonds of Inequality* uncovers how racial inequalities in San Francisco were intrinsically tied to municipal finance arrangements and how these arrangements were central in determining the distribution of resources in the city. By homing in on financing and its imperatives, Jenkins boldly rewrites the history of modern American cities, revealing the hidden strings that bind debt and power, race and inequity, democracy and capitalism.

A practical, illustrated guide to using the tools of design to create feelings of inclusion, collaboration, and respect in groups of any type or size—a classroom, a work team, an international organization—from Stanford University's d.school. “This is a beautiful book. Wise has applied the gift and imagination and lenses of the d.school to one of our most precious questions: how to create belonging.”—Priya Parker, author of the *Art of Gathering* and host of the New York Times podcast *Together Apart* *Belonging* brings out the best in everyone. Whether you're a parent, teacher, community organizer, or leader of any sort, your group is unlikely to thrive if the individuals don't feel welcomed, included, and valued for who they are. The good news is that you can use design to create feelings of inclusion in

your organization: rituals that bring people together, spaces that promote calm, roles that create a sense of responsibility, systems that make people feel respected, and more. You can't force feelings, but in *Design for Belonging*, author and educator Susie Wise explains how to use simple levers of design to set the stage for belonging to emerge. For example, add moveable furniture to a meeting space to customize for your group size; switch up the role of group leader regularly to increase visibility for everyone; or create a special ritual for people joining or leaving your organization to welcome fresh perspectives and honor work well done. Inspiration and stories from leaders and scholars are paired with frameworks, tools, and tips, providing an opportunity to try on different approaches. By the end of the book, you'll be able to spot where a greater sense of belonging is needed and actively shape your world to cultivate it—whether it's a party, a high-stakes meeting, or a new national organization.

Design for Belonging

The Condition of the Working-class in England in 1844

Debt and the Making of the American City

Creating Innovation Leaders

For Use of the Stanford Law School Classes in Legal Bibliography

The Joy of Movement

From the End of the Rainbow to the Edge of Time - A Journey Through the Wonders of Physics

#1 NEW YORK TIMES BEST SELLER • At last, a book that shows you how to build—design—a life you can thrive in, at any age or stage. Designers create worlds and solve problems using design thinking. Look around your office or home—at the tablet or smartphone you may be holding or the chair you are sitting in. Everything in our lives was designed by someone. And every design starts with a problem that a designer or team of designers seeks to solve. In this book, Bill Burnett and Dave Evans show us how design thinking can help us create a life that is both meaningful and fulfilling, regardless of who or where we are, what we do or have done for a living, or how young or old we are. The same design thinking responsible for amazing technology, products, and spaces can be used to design and build your career and your life, a life of fulfillment and joy, constantly creative and productive, one that always holds the possibility of surprise.

Largely autobiographical account of the author's life as one who fell in love first with physics and then with teaching physics to students. They loved. They lost. They lived. In the small Yorkshire town of Cottenly - dominated by the steel works and surrounded by beautiful countryside - Isaac Stanford lives with his wife Emily and their three lovely daughters, known locally as the Stanford lasses. Alice, the eldest, lives only for her work as a secretary and chapel on Sunday. Fair and loving Lizzie is content with her job making umbrellas -

until she falls in love with George Crossman and all she desires is to be a wife and mother. And headstrong Ruth, the merry one, is intent upon marrying handsome charmer, Walter Wray, despite warnings from friends and family. Already emotionally damaged by a traumatic childhood, Alice struggles to lead a normal life. Poor but happy with her ever increasing family, with the onset of war, Lizzie faces the threat of losing all she holds dear. And Ruth soon realises she has made a terrible mistake in her marriage as she becomes trapped in a life of poverty and violence. As the years pass each sister is forced to confront her greatest challenge ...

STEM Road Map: A Framework for Integrated STEM Education is the first resource to offer an integrated STEM curricula encompassing the entire K-12 spectrum, with complete grade-level learning based on a spiraled approach to building conceptual understanding. A team of over thirty STEM education professionals from across the U.S. collaborated on the important work of mapping out the Common Core standards in mathematics and English/language arts, the Next Generation Science Standards performance expectations, and the Framework for 21st Century Learning into a coordinated, integrated, STEM education curriculum map. The book is structured in three main parts—Conceptualizing STEM, STEM Curriculum Maps, and Building Capacity for STEM—designed to build common understandings of integrated STEM, provide rich curriculum maps for implementing integrated STEM at the classroom level, and supports to enable systemic transformation to an integrated STEM approach. The STEM Road Map places the power into educators' hands to implement integrated STEM learning within their classrooms without the need for extensive resources, making it a reality for all students.

Graph Representation Learning

Creative Ways to Engage People and Strengthen Relationships

Building Exceptional Relationships with Family, Friends, and Colleagues

Histories of Racial Capitalism

Early Modern Things

From 3d Reconstruction to Visual Recognition

The Bonds of Inequality

A transformative guide to building more fulfilling relationships with colleagues, friends, partners, and family, based on the landmark Interpersonal Dynamics (“Touchy-Feely”) course at Stanford’s Graduate School of Business ONE OF BLOOMBERG’S BEST BOOKS OF THE YEAR • “Carole Robin and David Bradford are masters at helping people bring IQ and EQ together to satisfy both and be successful.”—Ray Dalio, founder of Bridgewater and author of Principles: Life and Work The ability to create strong relationships with others is crucial to

living a full life and becoming more effective at work. Yet many of us find ourselves struggling to build solid personal and professional connections or unable to handle challenges that inevitably arise when we grow closer to others. When we find ourselves in an exceptional relationship—the kind of relationship in which we feel fully understood and supported for who we are—it can seem like magic. But the truth is that the process of building and sustaining these relationships can be described, learned, and applied. David Bradford and Carole Robin taught interpersonal skills to MBA candidates for a combined seventy-five years in their legendary Stanford Graduate School of Business course Interpersonal Dynamics (affectionately known to generations of students as “Touchy-Feely”) and have coached and consulted hundreds of executives for decades. In *Connect*, they show readers how to take their relationships from shallow to exceptional by cultivating authenticity, vulnerability, and honesty, while being willing to ask for and offer help, share a commitment to growth, and deal productively with conflict. Filled with relatable scenarios and research-backed insights, *Connect* is an important resource for anyone hoping to improve existing relationships and build new ones at any stage of life.

Now in its second edition, this book focuses on practical algorithms for mining data from even the largest datasets.

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

Developed from celebrated Harvard statistics lectures, *Introduction to Probability* provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional

Principles and Practice

Unleashing Students' Potential through Creative Math, Inspiring Messages and Innovative Teaching

Reasoning About a Highly Connected World

Introduction to Information Retrieval

Mining of Massive Datasets

Strategies for Making Ethical Decisions in Business and Life

Foundations of Statistical Natural Language Processing

A broad range of competing theories, analytical strategies and notational systems are surveyed in a comprehensive introduction to the fundamentals of sound structure.

Percival Everett's Erasure is a blistering satire about race and writing Thelonious "Monk" Ellison's writing career has bottomed out: his latest manuscript has been rejected by seventeen publishers, which stings all the more because his previous novels have been "critically acclaimed." He seethes on the sidelines of the literary establishment as he watches the meteoric success of We's Lives in Da Ghetto, a first novel by a woman who once visited "some relatives in Harlem for a couple of days."

Meanwhile, Monk struggles with real family tragedies—his aged mother is fast succumbing to Alzheimer's, and he still grapples with the reverberations of his father's suicide seven years before. In his rage and despair, Monk dashes off a novel meant to be an indictment of Juanita Mae Jenkins's bestseller. He doesn't intend for My Pafology to be published, let alone taken seriously, but it is—under the pseudonym Stagg R. Leigh—and soon it becomes the Next Big Thing. How Monk deals with the personal and professional fallout galvanizes this audacious, hysterical, and quietly devastating novel.

"Scott Hartley artfully explains why it is time for us to get over the false division between the human and the technical." —Tim Brown, CEO of IDEO and author of Change by Design Scott Hartley first heard the terms fuzzy and techie while studying political science at Stanford University. If you majored in humanities or social sciences, you were a fuzzy. If you majored in computer or hard sciences, you were a techie. While Silicon Valley is generally considered a techie stronghold, the founders of companies like Airbnb, Pinterest, Slack, LinkedIn, PayPal, Stitch Fix, Reddit, and others are all fuzzies—in other words, people with backgrounds in the liberal arts. In this brilliantly counterintuitive book, Hartley shatters assumptions about business and education today: learning to code is not enough. The soft skills—curiosity, communication, and collaboration, along with an understanding of psychology and society's gravest problems—are central to why technology has value. Fuzzies are the instrumental stewards of robots, artificial intelligence, and machine learning. They offer a human touch that is of equal—if not greater—importance in our technology-led world than what most techies can provide. For anyone doubting whether a well-rounded liberal arts education is practical in today's world, Hartley's work will come as an inspiring revelation. Finalist for the 2016 Financial Times/McKinsey Bracken Bower Prize A Financial Times Business Book of the Month Early Modern Things supplies fresh and provocative insights into how objects - ordinary and extraordinary, secular and sacred, natural and man-made - came to define some of the key developments of the early modern world. Now in its second edition, this book taps a rich vein of recent scholarship to explore a variety of approaches to the material culture of the early modern world (c. 1500-1800). Divided into seven parts, the book explores the ambiguity of things, representing things, making things, encountering things, empires of things, consuming things, and

the power of things. This edition includes a new preface and three new essays on 'encountering things' to enrich the volume. These look at cabinets of curiosities, American pearls, and the material culture of West Central Africa. Spanning across the early modern world from Ming dynasty China and Tokugawa Japan to Siberia and Georgian England, from the Kingdom of the Kongo and the Ottoman Empire to the Caribbean and the Spanish Americas, the authors provide a generous set of examples in how to study the circulation, use, consumption, and, most fundamentally, the nature of things themselves. Drawing on a broad range of disciplinary perspectives and lavishly illustrated, this updated edition of Early Modern Things is essential reading for all those interested in the early modern world and the history of material culture. Which Side of History?

An Introduction to Statistical Learning

The Stanford Lasses

Connect

A Framework for Integrated STEM Education

The Theoretical Minimum

Objects and their Histories, 1500-1800

Discover The Inspirational Story of Football Superstar Richard Sherman! Read on your PC, Mac, smart phone, tablet or Kindle device! You're about to discover the incredibly inspirational story of football superstar Richard Sherman. If you're reading this then you must be a Richard Sherman fan, like so many others. As a fan, you must wonder how this man is so talented and want to know more about him. Richard is considered as one of the greatest football players in the world and it's been an honor to be able to watch him play throughout his young career. This book will reveal to you much about Richard's story and the many accomplishments throughout his career. Here Is A Preview Of What You'll Learn... Youth and Family Life High School and College Career Professional Career and Personal Life Legacy, Charitable Acts and much more! If you want to learn more about Richard Sherman, then this book is for you. It will reveal to you many things that you did not know about this incredible football star! About the Author: Inspirational Stories is a series aimed at highlighting the great athletes of our society. Our mission is to present the stories of athletes who are not only impactful in their sport, but also great people outside of it. The athletes we write about have gone above and beyond to become impactful in their community and great role models for the youth, all while showing excellence in their profession. We publish concise, easily consumable books that portray the turning points in the lives of these great athletes, while also giving the context in which they occurred. Our books are especially great for children who look up to sports figures. Hopefully these athletes can serve as a source of inspiration and their stories can provide life lessons that are practical for fans of any demographic.

This book focuses on the process of creating and educating innovation leaders through specialized programs, which are offered by leading academic schools. Accordingly, the book is divided into two parts. While the first part provides the theoretical foundations of why and

how innovation leaders should be created, the second part presents evidence that these foundations can already be found in the programs of ten top-level universities. Part one consists of six chapters following a rigorous plan of content development, addressing topics ranging from (1) innovation, to (2) the settings where innovation occurs, (3) innovation leadership, (4) the need to change education, (5) a taxonomy of advanced educational experiences, and (6) cases of positive vs negative innovation leadership in the context of complex problems. Here the authors show that a new kind of innovation leadership is urgently needed, how it can be created, and how it is put into action. The second part is a collection of invited chapters that describe in detail ten leading academic programs: their objectives, curricular organization, enrollment procedures, and impact on students. Selected programs include four North American institutions (Stanford's d.school, Harvard's Multidisciplinary Engineering Faculty, Philadelphia University, OCAD's Master of Design on Strategic Foresight & Innovation), five European institutions (Alta Scuola Politecnica of Milano and Torino, the EIT Master Program, Paris' d.school, Brighton's Interdisciplinary Design Program, Aalto University) and the Mission D program at Tongji University in China. The book is dedicated to all those who recognize the need to provide stimuli regarding innovation and innovation leadership, primarily but not exclusively in academia. These include, but are not limited to, professors, deans and provosts of academic institutions, managers at private organizations and government policy-makers – in short, anyone who is engaged in promoting innovation within their own organization, and who feels the need to expand the intellectual and practical toolbox they use in this demanding and exciting endeavor.

In her ob-gyn practice, Dr. Hilda Hutcherson has seen women of all ages who have questions about sex. Now, in this down-to-earth book, she answers those questions and more as she addresses every sexual matter that has an impact on the lives of women. Combining up-to-date medical science with good old-fashioned girl talk, Dr. Hutcherson discusses sex in a lively tone that's as educational as it is engaging. With facts on female (and male) anatomy, aphrodisiacs, fantasy, orgasm, birth control, and more, she shows how to overcome sexual problems — and achieve sensational sensual experiences. Your mother may not have known what to tell you about sex, but Dr. Hutcherson will give you a real, honest education on sex and sexuality. And with a special chapter on talking to your daughter, you can pass your wisdom on to the next generation.

A master teacher presents the ultimate introduction to classical mechanics for people who are serious about learning physics "Beautifully clear explanations of famously 'difficult' things," -- Wall Street Journal If you ever regretted not taking physics in college -- or simply want to know how to think like a physicist -- this is the book for you. In this bestselling introduction to classical mechanics, physicist Leonard Susskind and hacker-scientist George Hrabovsky offer a first course in physics and associated math for the ardent amateur. Challenging, lucid, and concise, The

Theoretical Minimum provides a tool kit for amateur scientists to learn physics at their own pace.

The Summer Quarter

Phonology

What Your Mother Never Told You About Sex

Collection of Illustrative Pages Taken from Various Law Books

How to Think, Create, and Lead in Unconventional Ways

Creative Acts for Curious People

A Novel

The scandalous story of America's first supermodel, sex goddess, and modern celebrity—Evelyn Nesbit. By the time of her sixteenth birthday in 1900, Evelyn Nesbit was known to millions as the most photographed woman of her era, an iconic figure who set the standard for female beauty, and whose innocent sexuality was used to sell everything from chocolates to perfume. Women wanted to be her. Men just wanted her. But when Evelyn's life of fantasy became all too real and her insanely jealous millionaire husband, Harry K. Thaw, murdered her lover, New York City architect Stanford White, the most famous woman in the world became infamous as she found herself at the center of the "Crime of the Century" and a scandal that signaled the beginning of a national obsession with youth, beauty, celebrity, and sex.

The bestselling author of The Willpower Instinct introduces a surprising science-based book that doesn't tell us why we should exercise but instead shows us how to fall in love with movement. Exercise is health-enhancing and life-extending, yet many of us feel it's a chore. But, as Kelly McGonigal reveals, it doesn't have to be. Movement can and should be a source of joy. Through her trademark blend of science and storytelling, McGonigal draws on insights from neuroscience, psychology, anthropology, and evolutionary biology, as well as memoirs, ethnographies, and philosophers. She shows how movement is intertwined with some of the most basic human joys, including self-expression, social connection, and mastery--and why it is a powerful antidote to the modern epidemics of depression, anxiety, and loneliness. McGonigal tells the stories of people who have found fulfillment and belonging through running, walking, dancing, swimming, weightlifting, and more, with examples that span the globe, from Tanzania, where one of the last hunter-gatherer tribes on the planet live, to a dance class at Juilliard for people with Parkinson's disease, to the streets of London, where volunteers combine fitness and community service, to races in the remote wilderness, where athletes push the limits of what a human can endure. Along the way, McGonigal paints a portrait of human nature that highlights our capacity for hope, cooperation, and self-transcendence. The result is a revolutionary narrative that goes beyond familiar arguments in favor of exercise, to illustrate why movement is integral to both our happiness and our humanity. Readers will learn what they can do in their own lives and communities to harness the power of movement to create happiness, meaning, and connection.

The Stanford Lasses Random House

Banish math anxiety and give students of all ages a clear roadmap to success. Mathematical Mindsets provides practical strategies and activities to help teachers and parents show all children, even those who are convinced that they are bad at math, that they can enjoy and succeed in math. Jo Boaler—Stanford researcher, professor of math education, and expert on math learning—has studied why students don't like math and often fail in math classes. She's followed thousands of students through middle and high schools to study how they learn and to find the most effective ways to unleash the math potential in all students. There is a clear gap between what research has shown to work in teaching math and what happens in schools and at home. This book bridges that gap by turning research findings into practical activities and advice. Boaler translates Carol Dweck's concept of 'mindset' into math teaching and parenting strategies, showing how students can go from self-doubt to strong self-confidence, which is so important to math learning. Boaler reveals the steps that must be taken by schools and parents to improve math education for all. Mathematical Mindsets: Explains how the brain processes mathematics learning Reveals how to turn mistakes and struggles into valuable learning experiences Provides examples of rich mathematical activities to replace rote learning Explains ways to give students a positive math mindset Gives examples of how assessment and grading policies need to change to support real understanding Scores of students hate and fear math, so they end up leaving school without an understanding of basic mathematical concepts. Their evasion and departure hinders math-related pathways and STEM career opportunities. Research has shown very clear methods to change this phenomena, but the information has been confined to research journals—until now. Mathematical Mindsets provides a proven, practical roadmap to mathematics success for any student at any age.

A Global Perspective

The Good Parts

Richard Sherman

with Applications in R

Operating Systems

For the Love of Physics

How to Build Inclusion and Collaboration in Your Communities

Computer science and economics have engaged in a lively interaction over the past fifteen years, resulting in the new field of algorithmic game theory. Many problems that are central to modern computer science, ranging from resource allocation in large networks to online advertising, involve interactions between multiple self-interested parties. Economics and game theory offer a host of useful models and definitions to reason about such problems. The flow of ideas also travels in the other direction, and concepts from computer science are increasingly important in economics. This book grew out of the author's Stanford University course on algorithmic game theory, and aims to give students and other newcomers a quick and accessible introduction to many of the most important

concepts in the field. The book also includes case studies on online advertising, wireless spectrum auctions, kidney exchange, and network management.

Do your virtual meetings feel like a drag? Learn how to use rituals to build trust, increase engagement, and spark creativity. We rely on virtual meetings now more than ever.

However, they can often feel awkward, monotonous, and frustrating. If you're not thrilled with your virtual meetings, rituals can help your group break through to better results by providing structures that unlock freedom. With rituals, virtual meetings can be moments that are elevated and nurtured, opportunities for people to build connection and trust while accomplishing a common goal. In *Rituals for Virtual Meetings: Creative Ways to Engage People and Strengthen Relationships* authors Kursat Ozenc and Glenn Fajardo show leaders, managers, and meeting organizers how to build rapport and rhythm amongst team members when everyone is not in the same physical space. *Rituals for Virtual Meetings* provides readers with practical, concrete steps to improve group cohesion and performance, including: How to make virtual meetings more fluid and less awkward How to reduce Zoom fatigue and sustain people's energy during meetings How to facilitate better interactions with project partners, customers, and clients How community leaders can engage members in a virtual setting How teachers can engage students in virtual classrooms Perfect for anyone who needs to engage people in virtual settings, the book also belongs on the shelves of anyone interested in how to increase team engagement in a variety of contexts.

Most programming languages contain good and bad parts, but JavaScript has more than its share of the bad, having been developed and released in a hurry before it could be refined. This authoritative book scrapes away these bad features to reveal a subset of JavaScript that's more reliable, readable, and maintainable than the language as a whole—a subset you can use to create truly extensible and efficient code. Considered the JavaScript expert by many people in the development community, author Douglas Crockford identifies the abundance of good ideas that make JavaScript an outstanding object-oriented programming language—ideas such as functions, loose typing, dynamic objects, and an expressive object literal notation. Unfortunately, these good ideas are mixed in with bad and downright awful ideas, like a programming model based on global variables. When Java applets failed, JavaScript became the language of the Web by default, making its popularity almost completely independent of its qualities as a programming language. In *JavaScript: The Good Parts*, Crockford finally digs through the steaming pile of good intentions and blunders to give you a detailed look at all the genuinely elegant parts of JavaScript, including: Syntax Objects Functions Inheritance Arrays Regular expressions Methods Style Beautiful features The real beauty? As you move ahead with the subset of JavaScript that this book presents, you'll also sidestep the need to unlearn all the bad parts. Of course, if you want to find out more about the bad parts and how to use them badly, simply consult any other JavaScript book. With *JavaScript: The Good Parts*, you'll discover a beautiful, elegant, lightweight and highly expressive language that lets you create effective code, whether you're managing object libraries or just trying to get Ajax to run fast. If you develop sites or applications for the Web, this book is an absolute must. Graph-structured data is ubiquitous throughout the natural and social sciences, from telecommunication networks to quantum chemistry. Building relational inductive biases into deep learning architectures is crucial for creating systems that can learn, reason, and generalize from this kind of data. Recent years have seen a surge in research on graph representation learning, including techniques for deep graph embeddings, generalizations of convolutional neural networks to graph-structured data, and neural message-passing approaches inspired by belief propagation. These advances in graph representation learning have led to new state-of-the-art results in numerous domains, including chemical

synthesis, 3D vision, recommender systems, question answering, and social network analysis. This book provides a synthesis and overview of graph representation learning. It begins with a discussion of the goals of graph representation learning as well as key methodological foundations in graph theory and network analysis. Following this, the book introduces and reviews methods for learning node embeddings, including random-walk-based methods and applications to knowledge graphs. It then provides a technical synthesis and introduction to the highly successful graph neural network (GNN) formalism, which has become a dominant and fast-growing paradigm for deep learning with graph data. The book concludes with a synthesis of recent advancements in deep generative models for graphs—a nascent but quickly growing subset of graph representation learning.

American Eve

The Inspirational Story of Football Superstar Richard Sherman

How Technology Is Reshaping Democracy and Our Lives

Computer Vision

Twenty Lectures on Algorithmic Game Theory

Data Mining, Inference, and Prediction

Leading With Values

The relationship between race and capitalism is one of the most enduring and controversial historical debates. The concept of racial capitalism offers a way out of this impasse. Racial capitalism is not simply a permutation, phase, or stage in the larger history of capitalism—since the beginning of the Atlantic slave trade and the colonization of the Americas, capitalism, in both material and ideological senses, has been racial, deriving social and economic value from racial classification and stratification. Although Cedric J. Robinson popularized the term, racial capitalism has remained undertheorized for nearly four decades. Histories of Racial Capitalism brings together for the first time distinguished and rising scholars to consider the utility of the concept across historical settings. These scholars offer dynamic accounts of the relationship between social relations of exploitation and the racial terms through which they were organized, justified, and contested. Deploying an eclectic array of methods, their works range from indigenous mortgage foreclosures to the legacies of Atlantic-world maroons, from imperial expansion in the continental United States and beyond to the racial politics of municipal debt in the New South, from the ethical complexities of Latinx banking to the postcolonial dilemmas of extraction in the Caribbean. Throughout, the contributors consider and challenge how some claims about the history and nature of capitalism are universalized while others remain marginalized. By theorizing and testing the concept of racial capitalism in different historical circumstances, this book shows its analytical and political power for today's scholars and activists.

Over the past two decades, there has been a huge amount of innovation in both the principles and practice of operating systems. Over the same period, the core ideas in a modern operating system - protection, concurrency, virtualization, resource allocation, and reliable storage - have become widely applied throughout computer science. Whether you get a job at Facebook, Google, Microsoft, or any other leading-edge technology company, it is impossible to build resilient, secure, and flexible computer systems without the ability to apply operating systems concepts in a variety of settings. This book examines the both the principles and practice of modern operating systems, taking important, high-level concepts all the way down to the level of working code. Because operating systems concepts are among the most difficult in computer science,

this top to bottom approach is the only way to really understand and master this important material.

*When a 3-dimensional world is projected onto a 2-dimensional image, such as the human retina or a photograph, reconstructing back the layout and contents of the real-world becomes an ill-posed problem that is extremely difficult to solve. Humans possess the remarkable ability to navigate and understand the visual world by solving the inversion problem going from 2D to 3D. Computer Vision seeks to imitate such abilities of humans to recognize objects, navigate scenes, reconstruct layouts, and understand the geometric space and semantic meaning of the visual world. These abilities are critical in many applications including robotics, autonomous driving and exploration, photo organization, image, or video retrieval, and human-computer interaction. This book delivers a systematic overview of computer vision, comparable to that presented in an advanced graduate level class. The authors emphasize two key issues in modeling vision: space and meaning, and focus upon the main problems vision needs to solve, including: * mapping out the 3D structure of objects and scenes* recognizing objects* segmenting objects* recognizing meaning of scenes* understanding movements of humans*

Motivated by these important problems and centered on the understanding of space and meaning, the book explores the fundamental theories and important algorithms of computer vision, starting from the analysis of 2D images, and culminating in the holistic understanding of a 3D scene

An Introduction to Statistical Learning provides an accessible overview of the field of statistical learning, an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, and more. Color graphics and real-world examples are used to illustrate the methods presented. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an extremely popular open source statistical software platform. Two of the authors co-wrote The Elements of Statistical Learning (Hastie, Tibshirani and Friedman, 2nd edition 2009), a popular reference book for statistics and machine learning researchers. An Introduction to Statistical Learning covers many of the same topics, but at a level accessible to a much broader audience. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge statistical learning techniques to analyze their data. The text assumes only a previous course in linear regression and no knowledge of matrix algebra.

Rituals for Virtual Meetings

Computer Graphics and Imaging

JavaScript: The Good Parts

An Introduction to Basic Concepts

Mathematical Mindsets

How to Build a Well-Lived, Joyful Life

The Elements of Statistical Learning

Which Side of History? offers a collection of bold essays on how technology is affecting

democracy, society, and our future. Featuring prominent national voices such as Sacha Baron Cohen, Marc Benioff, Ellen Pao, Ken Auletta, Chelsea Clinton, Tim Wu, Khaled Hosseini, Nicholas Kristof and Sheryl WuDunn, Jaron Lanier, Willow Bay, Sal Khan, Sherry Turkle, Shoshana Zuboff, Vivek Murthy, Geoffrey Canada, and many more. The essays focus on the extraordinary impact of technology on our privacy, kids and families, race and gender roles, democracy, climate change, and mental health. This groundbreaking book challenges opinion leaders and the broader public to take action to improve technology's effects on our lives. Featuring notable journalists, engineers, entrepreneurs, novelists, activists, filmmakers, business leaders, scholars, and researchers, including: Thomas Friedman, Kara Swisher, Michelle Alexander, Jennifer Siebel Newsom, Jenna Wortham, Cameron Kasky, Howard Gardner, and Tristan Harris. Explores the ethical behavior of Big Tech, or the lack thereof Offers roadmaps for constructive change and thought-provoking perspectives. With the rise of cyberbullying and hate speech online, issues around climate change and technology, and the "move fast and break things" mentality of tech culture, Which Side of History? will urge readers to draw the line. This book will help shape the conversations we have around technology in our society and our future for years to come. A smart gift for anyone who approaches tech and the future with a healthy skepticism Edited by James P. Steyer, the CEO and founder of Common Sense Media. Add it to the shelf with books like Ten Arguments for Deleting Your Social Media Accounts Right Now by Jaron Lanier, The Shallows: What the Internet Is Doing to Our Brains by Nicholas Carr, and The Age of Surveillance Capitalism: The Fight for a Human Future at the New Frontier of Power by Shoshana Zuboff.

Statistical approaches to processing natural language text have become dominant in recent years. This foundational text is the first comprehensive introduction to statistical natural language processing (NLP) to appear. The book contains all the theory and algorithms needed for building NLP tools. It provides broad but rigorous coverage of mathematical and linguistic foundations, as well as detailed discussion of statistical methods, allowing students and researchers to construct their own implementations. The book covers collocation finding, word sense disambiguation, probabilistic parsing, information retrieval, and other applications.

During the past decade there has been an explosion in computation and information technology. With it have come vast amounts of data in a variety of fields such as medicine, biology, finance, and marketing. The challenge of understanding these data has led to the development of new tools in the field of statistics, and spawned new areas such as data mining, machine learning, and bioinformatics. Many of these tools have common underpinnings but are often expressed with different terminology. This book describes the important ideas in these areas in a common conceptual framework. While the approach is statistical, the emphasis is on concepts rather than mathematics. Many examples are given, with a liberal use of color graphics. It should be a valuable resource for statisticians and anyone interested in data mining in science or industry. The book's coverage is broad, from supervised learning (prediction) to unsupervised learning. The many topics include neural networks, support vector machines, classification trees and boosting---the first comprehensive treatment of this topic in any book. This major new edition features many

topics not covered in the original, including graphical models, random forests, ensemble methods, least angle regression & path algorithms for the lasso, non-negative matrix factorization, and spectral clustering. There is also a chapter on methods for “wide” data (p bigger than n), including multiple testing and false discovery rates. Trevor Hastie, Robert Tibshirani, and Jerome Friedman are professors of statistics at Stanford University. They are prominent researchers in this area: Hastie and Tibshirani developed generalized additive models and wrote a popular book of that title. Hastie co-developed much of the statistical modeling software and environment in R/S-PLUS and invented principal curves and surfaces. Tibshirani proposed the lasso and is co-author of the very successful *An Introduction to the Bootstrap*. Friedman is the co-inventor of many data-mining tools including CART, MARS, projection pursuit and gradient boosting.

"A masterly book" —Nassim Nicholas Taleb, author of *The Black Swan* "A classic" —Simon Kuper, *Financial Times* An economist explains five laws that confirm our worst fears: stupid people can and do rule the world Throughout history, a powerful force has hindered the growth of human welfare and happiness. It is more powerful than the Mafia or the military. It has global catastrophic effects and can be found anywhere from the world's most powerful boardrooms to your local bar. It is human stupidity. Carlo M. Cipolla, noted professor of economic history at the UC Berkeley, created this vitally important book in order to detect and neutralize its threat. Both hilarious and dead serious, it will leave you better equipped to confront political realities, unreasonable colleagues, or your next dinner with your in-laws. The Laws: 1. Everyone underestimates the number of stupid individuals among us. 2. The probability that a certain person is stupid is independent of any other characteristic of that person. 3. A stupid person is a person who causes losses to another person while deriving no gain and even possibly incurring losses themselves. 4. Non-stupid people always underestimate the damaging power of stupid individuals. 5. A stupid person is the most dangerous type of person.

STEM Road Map

Networks, Crowds, and Markets

Introduction to Probability

Designing Your Life

Erasure

What You Need to Know to Start Doing Physics

Why the Liberal Arts Will Rule the Digital World

Computer graphics development is so quick that it has expanded from devices designed for military and top industrial applications to equipment for schools and households as common information media for education and entertainment. Computer graphics helps to mass expand computers and remove the barriers that ordinary people experience when working with them. In this book, modern approaches, procedures, algorithms, as well as devices in the area of light and colors, shading and lighting, realistic and photorealistic imaging, definition of graphical scenes or objects, and security based on graphical objects are presented. Graphical transformations and projections, spatial imaging, curves and surfaces, filling and texturing, image

filtering, and virtual reality are also covered.

How exercise helps us find happiness, hope, connection, and courage

The Fuzzy and the Techie

The Basic Laws of Human Stupidity