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BurstsAnd The Band Played onThe InstituteAnalyzing Social Media Networks with NodeXLLiving with the StarsEverything Is ConnectedNetwork ScienceThe FormulaNetworks, Crowds, and MarketsThe Future is SmartLinkedSix Degrees: The Science of a Connected AgeThe SuperorganismEverything Is ConnectedThe Quantum UniverseEthernetHoaxSix Degrees of SeparationLaudato Si'TribesHolesMolecular Biology of the CellSmartphones from an Applied Research PerspectiveThe Seventh SenseSeven Databases in Seven WeeksTCP/IP Network AdministrationOrigin StoryRevelationsFeedJust MercyThe World Book EncyclopediaDirk Gently's Holistic Detective AgencyConnectedThe Neurobiological Basis of SuicideIncreasing Student Learning Through Multimedia ProjectsInternet of ThingsLost ConnectionsFuture CrimesThe Anarchist CookbookEssential Questions

## Bursts

In the 1980's, James Gleick's Chaos introduced the world to complexity. Now, Albert-László Barabási's Linked reveals the next major scientific leap: the study of networks. We've long suspected that we live

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in a small world, where everything is connected to everything else. Indeed, networks are pervasive--from the human brain to the Internet to the economy to our group of friends. These linkages, it turns out, aren't random. All networks, to the great surprise of scientists, have an underlying order and follow simple laws. Understanding the structure and behavior of these networks will help us do some amazing things, from designing the optimal organization of a firm to stopping a disease outbreak before it spreads catastrophically. In *Linked*, Barabási, a physicist whose work has revolutionized the study of networks, traces the development of this rapidly unfolding science and introduces us to the scientists carrying out this pioneering work. These "new cartographers" are mapping networks in a wide range of scientific disciplines, proving that social networks, corporations, and cells are more similar than they are different, and providing important new insights into the interconnected world around us. This knowledge, says Barabási, can shed light on the robustness of the Internet, the spread of fads and viruses, even the future of democracy. Engaging and authoritative, *Linked* provides an exciting preview of the next century in science, guaranteed to be transformed by these amazing discoveries. From *Linked*: This book has a simple message: think networks. It is about how networks emerge, what they look like, and how they evolve. It aims to develop a web-based view of nature, society, and technology, providing a unified framework to better understand issues ranging from the vulnerability of the Internet to the spread of diseases. Networks are present everywhere. All we need is an eye for them. We will see the challenges

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doctors face when they attempt to cure a disease by focusing on a single molecule or gene, disregarding the complex interconnected nature of the living matter. We will see that hackers are not alone in attacking networks: we all play Goliath, firing shots at a fragile ecological network that, without further support, could soon replicate our worst nightmares by turning us into an isolated group of species. Linked is meant to be an eye-opening trip that challenges you to walk across disciplines by stepping out of the box of reductionism. It is an invitation to explore link by link the next scientific revolution: the new science of networks.

## **And The Band Played on**

What are "essential questions," and how do they differ from other kinds of questions? What's so great about them? Why should you design and use essential questions in your classroom? Essential questions (EQs) help target standards as you organize curriculum content into coherent units that yield focused and thoughtful learning. In the classroom, EQs are used to stimulate students' discussions and promote a deeper understanding of the content. Whether you are an Understanding by Design (UbD) devotee or are searching for ways to address standards—local or Common Core State Standards—in an engaging way, Jay McTighe and Grant Wiggins provide practical guidance on how to design, initiate, and embed inquiry-based teaching and learning in your classroom. Offering dozens of examples, the authors explore the usefulness of EQs

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in all K-12 content areas, including skill-based areas such as math, PE, language instruction, and arts education. As an important element of their backward design approach to designing curriculum, instruction, and assessment, the authors \*Give a comprehensive explanation of why EQs are so important; \*Explore seven defining characteristics of EQs; \*Distinguish between topical and overarching questions and their uses; \*Outline the rationale for using EQs as the focal point in creating units of study; and \*Show how to create effective EQs, working from sources including standards, desired understandings, and student misconceptions. Using essential questions can be challenging—for both teachers and students—and this book provides guidance through practical and proven processes, as well as suggested "response strategies" to encourage student engagement. Finally, you will learn how to create a culture of inquiry so that all members of the educational community—students, teachers, and administrators—benefit from the increased rigor and deepened understanding that emerge when essential questions become a guiding force for learners of all ages.

## **The Institute**

From Douglas Adams, the legendary author of one of the most beloved science fiction novels of all time, *The Hitchhiker's Guide to the Galaxy*, comes a wildly inventive novel—in trade paperback for the first time—of ghosts, time travel, and one detective's mission to save humanity from extinction. **DIRK GENTLY'S HOLISTIC DETECTIVE AGENCY** We solve the

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whole crime We find the whole person Phone today for the whole solution to your problem (Missing cats and messy divorces a specialty) Douglas Adams, the “master of wacky words and even wackier tales” (Entertainment Weekly) once again boggles the mind with a completely unbelievable story of ghosts, time travel, eccentric computer geniuses, Samuel Taylor Coleridge, the end of the world, and—of course—missing cats.

## **Analyzing Social Media Networks with NodeXL**

The Anarchist Cookbook will shock, it will disturb, it will provoke. It places in historical perspective an era when "Turn on, Burn down, Blow up" are revolutionary slogans of the day. Says the author "This book is not written for the members of fringe political groups, such as the Weatherman, or The Minutemen. Those radical groups don't need this book. They already know everything that's in here. If the real people of America, the silent majority, are going to survive, they must educate themselves. That is the purpose of this book." In what the author considers a survival guide, there is explicit information on the uses and effects of drugs, ranging from pot to heroin to peanuts. There i detailed advice concerning electronics, sabotage, and surveillance, with data on everything from bugs to scramblers. There is a comprehensive chapter on natural, non-lethal, and lethal weapons, running the gamut from cattle prods to sub-machine guns to bows and arrows.

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## **Living with the Stars**

Since the mid-twentieth century, conspiracy has pervaded our collective worldview, shaped by events such as the assassination of John F. Kennedy, the Vietnam War, Watergate, the Iran-Contra affair, and 9/11. *Everything Is Connected* examines how artists from the 1960s to the present have explored both the covert operations of power and the mutual suspicion between governments and their citizens. Featured are works by some thirty artists—including Sarah Charlesworth, Emory Douglas, Hans Haacke, Rachel Harrison, Jenny Holzer, Mike Kelley, Mark Lombardi, Cady Noland, Trevor Paglen, Raymond Pettibon, Jim Shaw, and Sue Williams—in media ranging from painting, drawing, and photography to video and installation art. Whether they uncover webs of deceit hidden in the public record or dive headlong into paranoid fever dreams, these artists use their work to take a powerful and proactive stance against the political corruption, consumerism, bureaucracy, and media manipulation that are hallmarks of contemporary life. p.p1 {margin: 0.0px 0.0px 0.0px 0.0px; font: 14.0px Verdana}

## **Everything Is Connected**

Highlights the many ways we are all linked to the world around us.

## **Network Science**

In *The Quantum Universe*, Brian Cox and Jeff Forshaw

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approach the world of quantum mechanics in the same way they did in *Why Does E=mc<sup>2</sup>?* and make fundamental scientific principles accessible—and fascinating—to everyone. The subatomic realm has a reputation for weirdness, spawning any number of profound misunderstandings, journeys into Eastern mysticism, and woolly pronouncements on the interconnectedness of all things. Cox and Forshaw's contention? There is no need for quantum mechanics to be viewed this way. There is a lot of mileage in the “weirdness” of the quantum world, and it often leads to confusion and, frankly, bad science. The Quantum Universe cuts through the Wu Li and asks what observations of the natural world made it necessary, how it was constructed, and why we are confident that, for all its apparent strangeness, it is a good theory. The quantum mechanics of The Quantum Universe provide a concrete model of nature that is comparable in its essence to Newton's laws of motion, Maxwell's theory of electricity and magnetism, and Einstein's theory of relativity.

## **The Formula**

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

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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.

## **Networks, Crowds, and Markets**

An examination of the AIDS crisis exposes the federal government for its inaction, health authorities for their greed, and scientists for their desire for prestige in the face of the AIDS pandemic.

## **The Future is Smart**

Smartphones from an Applied Research Perspective highlights latest advancements of research undertaken in multidisciplinary fields where the smartphone plays a central role. Smartphone is synonymous to innovation in today's society. Very few visionaries predicted its social, cultural, technological and economic impacts, although the usage of smartphone is almost pervasive and transcendental. This book is meant for researchers and postgraduate students looking forward for hot topics for their final year projects, doctoral or even postdoctoral studies. Practitioners too will find food for thought and will surely be amazed by the broadness of the topics presented.

## **Linked**

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Describes how individuals can become successful leaders through passion and connection with an interested group, and provides real-life case studies that illustrate this method.

## **Six Degrees: The Science of a Connected Age**

A revolutionary new theory showing how we can predict human behavior—from a radical genius and bestselling author Can we scientifically predict our future? Scientists and pseudo scientists have been pursuing this mystery for hundreds and perhaps thousands of years. But now, astonishing new research is revealing patterns in human behavior previously thought to be purely random. Precise, orderly, predictable patterns Albert Laszlo Barabasi, already the world's preeminent researcher on the science of networks, describes his work on this profound mystery in *Bursts*, a stunningly original investigation into human nature. His approach relies on the digital reality of our world, from mobile phones to the Internet and email, because it has turned society into a huge research laboratory. All those electronic trails of time stamped texts, voicemails, and internet searches add up to a previously unavailable massive data set of statistics that track our movements, our decisions, our lives. Analysis of these trails is offering deep insights into the rhythm of how we do everything. His finding? We work and fight and play in short flourishes of activity followed by next to nothing. The pattern isn't random, it's "bursty." Randomness does not rule our lives in the

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way scientists have assumed up until now. Illustrating this revolutionary science, Barabasi artfully weaves together the story of a 16th century burst of human activity—a bloody medieval crusade launched in his homeland, Transylvania—with the modern tale of a contemporary artist hunted by the FBI through our post 9/11 surveillance society. These narratives illustrate how predicting human behavior has long been the obsession, sometimes the duty, of those in power. Barabási's astonishingly wide range of examples from seemingly unrelated areas include how dollar bills move around the U.S., the pattern everyone follows in writing email, the spread of epidemics, and even the flight patterns of albatross. In all these phenomena a virtually identical, mathematically described bursty pattern emerges. Bursts reveals what this amazing new research is showing us about where individual spontaneity ends and predictability in human behavior begins. The way you think about your own potential to do something truly extraordinary will never be the same.

## **The Superorganism**

Data is getting bigger and more complex by the day, and so are your choices in handling it. Explore some of the most cutting-edge databases available - from a traditional relational database to newer NoSQL approaches - and make informed decisions about challenging data storage problems. This is the only comprehensive guide to the world of NoSQL databases, with in-depth practical and conceptual introductions to seven different technologies: Redis,

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Neo4J, CouchDB, MongoDB, HBase, Postgres, and DynamoDB. This second edition includes a new chapter on DynamoDB and updated content for each chapter. While relational databases such as MySQL remain as relevant as ever, the alternative, NoSQL paradigm has opened up new horizons in performance and scalability and changed the way we approach data-centric problems. This book presents the essential concepts behind each database alongside hands-on examples that make each technology come alive. With each database, tackle a real-world problem that highlights the concepts and features that make it shine. Along the way, explore five database models - relational, key/value, columnar, document, and graph - from the perspective of challenges faced by real applications. Learn how MongoDB and CouchDB are strikingly different, make your applications faster with Redis and more connected with Neo4J, build a cluster of HBase servers using cloud services such as Amazon's Elastic MapReduce, and more. This new edition brings a brand new chapter on DynamoDB, updated code samples and exercises, and a more up-to-date account of each database's feature set. Whether you're a programmer building the next big thing, a data scientist seeking solutions to thorny problems, or a technology enthusiast venturing into new territory, you will find something to inspire you in this book.

**What You Need:** You'll need a \*nix shell (Mac OS or Linux preferred, Windows users will need Cygwin), Java 6 (or greater), and Ruby 1.8.7 (or greater). Each chapter will list the downloads required for that database.

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## **Everything Is Connected**

Analyzing Social Media Networks with NodeXL offers backgrounds in information studies, computer science, and sociology. This book is divided into three parts: analyzing social media, NodeXL tutorial, and social-media network analysis case studies. Part I provides background in the history and concepts of social media and social networks. Also included here is social network analysis, which flows from measuring, to mapping, and modeling collections of connections. The next part focuses on the detailed operation of the free and open-source NodeXL extension of Microsoft Excel, which is used in all exercises throughout this book. In the final part, each chapter presents one form of social media, such as e-mail, Twitter, Facebook, Flickr, and Youtube. In addition, there are descriptions of each system, the nature of networks when people interact, and types of analysis for identifying people, documents, groups, and events. Walks you through NodeXL, while explaining the theory and development behind each step, providing takeaways that can apply to any SNA Demonstrates how visual analytics research can be applied to SNA tools for the mass market Includes case studies from researchers who use NodeXL on popular networks like email, Facebook, Twitter, and wikis Download companion materials and resources at <https://nodexl.codeplex.com/documentation>

## **The Quantum Universe**

This New York Times bestseller "elegantly weaves

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evidence and insights . . . into a single, accessible historical narrative" (Bill Gates) and presents a captivating history of the universe -- from the Big Bang to dinosaurs to mass globalization and beyond. Most historians study the smallest slivers of time, emphasizing specific dates, individuals, and documents. But what would it look like to study the whole of history, from the big bang through the present day -- and even into the remote future? How would looking at the full span of time change the way we perceive the universe, the earth, and our very existence? These were the questions David Christian set out to answer when he created the field of "Big History," the most exciting new approach to understanding where we have been, where we are, and where we are going. In *Origin Story*, Christian takes readers on a wild ride through the entire 13.8 billion years we've come to know as "history." By focusing on defining events (thresholds), major trends, and profound questions about our origins, Christian exposes the hidden threads that tie everything together -- from the creation of the planet to the advent of agriculture, nuclear war, and beyond. With stunning insights into the origin of the universe, the beginning of life, the emergence of humans, and what the future might bring, *Origin Story* boldly reframes our place in the cosmos.

## **Ethernet**

A NEW YORK TIMES 100 NOTABLE BOOKS OF 2019 SELECTION From #1 New York Times bestselling author Stephen King, the most riveting and

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unforgettable story of kids confronting evil since It. In the middle of the night, in a house on a quiet street in suburban Minneapolis, intruders silently murder Luke Ellis's parents and load him into a black SUV. The operation takes less than two minutes. Luke will wake up at The Institute, in a room that looks just like his own, except there's no window. And outside his door are other doors, behind which are other kids with special talents—telekinesis and telepathy—who got to this place the same way Luke did: Kalisha, Nick, George, Iris, and ten-year-old Avery Dixon. They are all in Front Half. Others, Luke learns, graduated to Back Half, "like the roach motel," Kalisha says. "You check in, but you don't check out." In this most sinister of institutions, the director, Mrs. Sigsby, and her staff are ruthlessly dedicated to extracting from these children the force of their extranormal gifts. There are no scruples here. If you go along, you get tokens for the vending machines. If you don't, punishment is brutal. As each new victim disappears to Back Half, Luke becomes more and more desperate to get out and get help. But no one has ever escaped from the Institute. As psychically terrifying as Firestarter, and with the spectacular kid power of It, The Institute is Stephen King's gut-wrenchingly dramatic story of good vs. evil in a world where the good guys don't always win.

## **Hoax**

With recent studies using genetic, epigenetic, and other molecular and neurochemical approaches, a new era has begun in understanding pathophysiology

of suicide. Emerging evidence suggests that neurobiological factors are not only critical in providing potential risk factors but also provide a promising approach to develop more effective treatment and prevention strategies. The Neurobiological Basis of Suicide discusses the most recent findings in suicide neurobiology. Psychological, psychosocial, and cultural factors are important in determining the risk factors for suicide; however, they offer weak prediction and can be of little clinical use. Interestingly, cognitive characteristics are different among depressed suicidal and depressed nonsuicidal subjects, and could be involved in the development of suicidal behavior. The characterization of the neurobiological basis of suicide is in delineating the risk factors associated with suicide. The Neurobiological Basis of Suicide focuses on how and why these neurobiological factors are crucial in the pathogenic mechanisms of suicidal behavior and how these findings can be transformed into potential therapeutic applications.

## **Six Degrees of Separation**

"This is not just an important but an imperative project: to approach the problem of randomness and success using the state of the art scientific arsenal we have. Barabasi is the person."-Nassim Nicholas Taleb, author of the New York Times bestselling *The Black Swan* and Distinguished Professor of Risk Engineering at NYU An international bestseller In the bestselling tradition of Malcom Gladwell, James Gleick, and Nate Silver, prominent professor LASZLO Barabasi gives us

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a trailblazing book that promises to transform the very foundations of how our success-obsessed society approaches their professional careers, life pursuits and long-term goals. Too often, accomplishment does not equal success. We did the work but didn't get the promotion; we played hard but weren't recognized; we had the idea but didn't get the credit. We convince ourselves that talent combined with a strong work ethic is the key to getting ahead, but also realize that combination often fails to yield results, without any deeper understanding as to why. Recognizing this striking disconnect, the author, along with a team of renowned researchers and some of the most advanced data-crunching systems on the planet, dedicated themselves to one goal: uncovering that ever-elusive link between performance and success. Now, based on years of academic research, The Formula finally unveils the groundbreaking discoveries of their pioneering study, not only highlighting the scientific and mathematic principles that underpin success, but also revolutionizing our understanding of: -Why performance is necessary but not adequate -Why "Experts" are often wrong -How to assemble a creative team primed for success -How to most effectively engage our networks -And much more.

## **Laudato Si'**

## **Tribes**

Illustrated throughout in full colour, this pioneering

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text is the only book you need for an introduction to network science.

## Holes

Winner of the Newbery Medal and the National Book Award! This #1 New York Times bestselling, modern classic in which boys are forced to dig holes day in and day out is now available with a splashy new look. Stanley Yelnats is under a curse. A curse that began with his no-good-dirty-rotten-pig-stealing-great-great-grandfather and has since followed generations of Yelnatses. Now Stanley has been unjustly sent to a boys' detention center, Camp Green Lake, where the boys build character by spending all day, every day digging holes exactly five feet wide and five feet deep. There is no lake at Camp Green Lake. But there are an awful lot of holes. It doesn't take long for Stanley to realize there's more than character improvement going on at Camp Green Lake. The boys are digging holes because the warden is looking for something. But what could be buried under a dried-up lake? Stanley tries to dig up the truth in this inventive and darkly humorous tale of crime and punishment—and redemption. Includes a double bonus: an excerpt from *Small Steps*, the follow-up to *Holes*, as well as an excerpt from Louis Sachar's new middle-grade novel, *Fuzzy Mud*. "A smart jigsaw puzzle of a novel." --The New York Times WINNER OF THE BOSTON GLOBE-HORN BOOK AWARD A NEW YORK TIMES BOOK REVIEW NOTABLE CHILDREN'S BOOK SELECTED FOR NUMEROUS BEST BOOK OF THE YEAR AND ALA HONORS

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## **Molecular Biology of the Cell**

An encyclopedia designed especially to meet the needs of elementary, junior high, and high school students.

## **Smartphones from an Applied Research Perspective**

An architect of network theory summarizes his team's endeavor to create a blueprint of the world's networks, citing the scientific elements of the Internet, economies, terrorist organizations, and other knowledge-based groups. Reprint.

## **The Seventh Sense**

A play about a young, black con man and the wealthy white family he fools, deals with liberal guilt, greed, loveless families, false aesthetics, and modern life in New York City.

## **Seven Databases in Seven Weeks**

THE INTERNATIONAL BESTSELLER 'A book that could actually make us happy' SIMON AMSTELL 'This amazing book will change your life' ELTON JOHN 'One of the most important texts of recent years' BRITISH JOURNAL OF GENERAL PRACTICE 'Brilliant, stimulating, radical' MATT HAIG 'The more people read this book, the better off the world will be' NAOMI KLEIN 'Wonderful' HILLARY CLINTON 'Eye-opening' GUARDIAN 'Brilliant for anyone wanting a better

understanding of mental health' ZOE BALL 'A game-changer' DAVINA MCCALL 'Extraordinary' DR MAX PEMBERTON 'Beautiful' RUSSELL BRAND Depression and anxiety are now at epidemic levels. Why? Across the world, scientists have uncovered evidence for nine different causes. Some are in our biology, but most are in the way we are living today. Lost Connections offers a radical new way of thinking about this crisis. It shows that once we understand the real causes, we can begin to turn to pioneering new solutions - ones that offer real hope.

## **TCP/IP Network Administration**

Celebrated scientists Nicholas Christakis and James Fowler explain the amazing power of social networks and our profound influence on one another's lives. Your colleague's husband's sister can make you fat, even if you don't know her. A happy neighbor has more impact on your happiness than a happy spouse. These startling revelations of how much we truly influence one another are revealed in the studies of Drs. Christakis and Fowler, which have repeatedly made front-page news nationwide. In *CONNECTED*, the authors explain why emotions are contagious, how health behaviors spread, why the rich get richer, even how we find and choose our partners. Intriguing and entertaining, *CONNECTED* overturns the notion of the individual and provides a revolutionary paradigm - that social networks influence our ideas, emotions, health, relationships, behavior, politics, and much more. It will change the way we think about every aspect of our lives.

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## Origin Story

Addressed to K-12 teachers, discusses enhancing student achievement through project-based learning with multimedia and offers principles and guidelines to insure that multimedia projects address curriculum standards.

## Revelations

#1 NEW YORK TIMES BESTSELLER • NOW A MAJOR MOTION PICTURE STARRING MICHAEL B. JORDAN AND JAMIE FOXX • A powerful true story about the potential for mercy to redeem us, and a clarion call to fix our broken system of justice—from one of the most brilliant and influential lawyers of our time. “[Bryan Stevenson’s] dedication to fighting for justice and equality has inspired me and many others and made a lasting impact on our country.”—John Legend  
NAMED ONE OF THE MOST INFLUENTIAL BOOKS OF THE DECADE BY CNN • Named One of the Best Books of the Year by The New York Times • The Washington Post • The Boston Globe • The Seattle Times • Esquire • Time  
Bryan Stevenson was a young lawyer when he founded the Equal Justice Initiative, a legal practice dedicated to defending those most desperate and in need: the poor, the wrongly condemned, and women and children trapped in the farthest reaches of our criminal justice system. One of his first cases was that of Walter McMillian, a young man who was sentenced to die for a notorious murder he insisted he didn’t commit. The case drew Bryan into a tangle of conspiracy, political machination, and legal

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brinksmanship—and transformed his understanding of mercy and justice forever. Just Mercy is at once an unforgettable account of an idealistic, gifted young lawyer’s coming of age, a moving window into the lives of those he has defended, and an inspiring argument for compassion in the pursuit of true justice. Winner of the Carnegie Medal for Excellence in Nonfiction • Winner of the NAACP Image Award for Nonfiction • Winner of a Books for a Better Life Award • Finalist for the Los Angeles Times Book Prize • Finalist for the Kirkus Reviews Prize • An American Library Association Notable Book “Every bit as moving as To Kill a Mockingbird, and in some ways more so . . . a searing indictment of American criminal justice and a stirring testament to the salvation that fighting for the vulnerable sometimes yields.”—David Cole, The New York Review of Books “Searing, moving . . . Bryan Stevenson may, indeed, be America’s Mandela.”—Nicholas Kristof, The New York Times “You don’t have to read too long to start cheering for this man. . . . The message of this book . . . is that evil can be overcome, a difference can be made. Just Mercy will make you upset and it will make you hopeful.”—Ted Conover, The New York Times Book Review “Inspiring . . . a work of style, substance and clarity . . . Stevenson is not only a great lawyer, he’s also a gifted writer and storyteller.”—The Washington Post “As deeply moving, poignant and powerful a book as has been, and maybe ever can be, written about the death penalty.”—The Financial Times “Brilliant.”—The Philadelphia Inquirer

## Feed

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Ethernet has been the core networking technology since the early 1980s, and is used by every high-tech business. While the basic protocols have changed little, new options such as Fast Ethernet and Gigabit Ethernet have increased the complexity of the topic. Ethernet: The Definitive Guide provides everything you need to know to set up and manage an Ethernet network. Ethernet: The Definitive Guide includes details about the IEEE 802.3 standard and its protocols, and is separated into five parts: Introduction to Ethernet provides a tour of basic Ethernet theory and operation, including a description of Ethernet frames, operation of the Media Access Control (MAC) protocol, full-duplex mode, and Auto-Negotiation. Ethernet Media Systems is the heart of the book. This section shows you how to build media-specific Ethernet networks, from a basic 10BASE-T Ethernet offering 10 Mbps over twisted-pair cables, to an advanced 1000BASE-X Gigabit Ethernet system, providing up to 1 Gbps of data transfer over fiber optic cables. Building Your Ethernet System teaches you how to build twisted-pair and fiber optic media segments, as well as how to expand the reach of your local area network using repeaters and switching hubs. Performance and Troubleshooting is divided into two chapters. The first describes the performance of a given Ethernet channel, as well as the performance of the entire network system. The second chapter includes a tutorial on troubleshooting techniques and describes the kinds of problems; network administrators are likely to encounter. The last part of the book, Appendixes, includes a complete glossary of terms used throughout the book, a resource list, descriptions of thick and thin coax-

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based Ethernet systems, and a guide to AUI equipment installation and configuration. Ethernet: The Definitive Guide is the one essential source of information for network administrators who need to build and manage scalable local area networks.

## **Just Mercy**

Are you ready for the IoT revolution? The Internet of Things (IoT) will soon be everywhere—embedded in interconnected devices we'll use every day. Already, cars, appliances, and wearables transmit realtime data to improve performance . . . and new IoT products can even save your life. Consumer goods are just the tip of the iceberg. Amid projections that 30 billion smart devices will be linked in the near future, traditional companies such as Siemens, GE, and John Deere are preparing for profound changes to management, strategy, manufacturing, and maintenance. With the IoT, for example, sensors warn when a critical assembly-line part is about to break, or track how customers actually use products. Data hubs collect and share information instantly with departments, supply chains, partners, and customers—anchoring the organization and replacing hierarchies with circular systems. The Future is Smart documents the shifts now under way. Written by a leading IoT strategist, the book explains how companies are tapping technology to:

- Optimize supply chains
- Maximize quality
- Boost safety
- Increase efficiency
- Reduce waste
- Cut costs
- Revolutionize product design
- Delight customers

For those who are ready, the opportunities are endless.

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This big-think book reveals concrete actions for thriving in this new tech-enabled world.

### **The World Book Encyclopedia**

The term "Internet of Things" (IoT) refers to an ecosystem of interconnected physical objects and devices that are accessible through the Internet and can communicate with each other. The main strength of the IoT vision is the high impact it has created and will continue to do so on several aspects of the everyday life and behavior of its potential users. This book presents some of the state-of-the-art research work in the field of the IoT, especially on the issues of communication protocols, interoperability of protocols and semantics, trust security and privacy issues, reference architecture design, and standardization. It will be a valuable source of knowledge for researchers, engineers, practitioners, and graduate and doctoral students who are working in various fields of the IoT. It will also be useful for faculty members of graduate schools and universities.

### **Dirk Gently's Holistic Detective Agency**

This complete guide to setting up and running a TCP/IP network is essential for network administrators, and invaluable for users of home systems that access the Internet. The book starts with the fundamentals -- what protocols do and how they work, how addresses and routing are used to move data through the network, how to set up your network connection -- and then covers, in detail, everything

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you need to know to exchange information via the Internet. Included are discussions on advanced routing protocols (RIPv2, OSPF, and BGP) and the gated software package that implements them, a tutorial on configuring important network services -- including DNS, Apache, sendmail, Samba, PPP, and DHCP -- as well as expanded chapters on troubleshooting and security. TCP/IP Network Administration is also a command and syntax reference for important packages such as gated, pppd, named, dhcpd, and sendmail. With coverage that includes Linux, Solaris, BSD, and System V TCP/IP implementations, the third edition contains:

- Overview of TCP/IP
- Delivering the data Network services
- Getting started
- Basic configuration
- Configuring the interface
- Configuring routing
- Configuring DNS
- Configuring network servers
- Configuring sendmail
- Configuring Apache
- Network security
- Troubleshooting

Appendices include dip, pppd, and chat reference, a gated reference, a dhcpd reference, and a sendmail reference. This new edition includes ways of configuring Samba to provide file and print sharing on networks that integrate Unix and Windows, and a new chapter is dedicated to the important task of configuring the Apache web server. Coverage of network security now includes details on OpenSSH, stunnel, gpg, iptables, and the access control mechanism in xinetd. Plus, the book offers updated information about DNS, including details on BIND 8 and BIND 9, the role of classless IP addressing and network prefixes, and the changing role of registrars. Without a doubt, TCP/IP Network Administration, 3rd Edition is a must-have for all network administrators and anyone who deals with a network that transmits data over the Internet.

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**Connected**

In a future where most people have computer implants in their heads to control their environment, a boy meets an unusual girl who is in serious trouble.

## **The Neurobiological Basis of Suicide**

“A thorough and damning exploration of the incestuous relationship between Trump and his favorite channel.” —The New York Times “A Rosetta Stone for stuff about this presidency that doesn’t otherwise make sense to normal humans.” —Rachel Maddow, MSNBC “Stelter’s critique goes beyond salacious tidbits about extramarital affairs (though there are plenty of those) to expose a collusion that threatens the pillars of our democracy.” —The Washington Post The urgent and untold story of the collusion between Fox News and Donald Trump from the New York Times bestselling author of Top of the Morning. While other leaders were marshaling resources to combat the greatest pandemic in modern history, President Donald Trump was watching TV. Trump watches over six hours of Fox News a day, a habit his staff refers to as “executive time.” In January 2020, when Fox News began to downplay COVID-19, the President was quick to agree. In March, as the deadly virus spiraled out of control, Sean Hannity mocked “coronavirus hysteria” as a “new hoax” from the left. Millions of Americans took Hannity and Trump’s words as truth—until some of them started to get sick. In Hoax, CNN anchor and chief media correspondent Brian Stelter tells the

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twisted story of the relationship between Donald Trump and Fox News. From the moment Trump glided down the golden escalator to announce his candidacy in the 2016 presidential election to his acquittal on two articles of impeachment in early 2020, Fox hosts spread his lies and smeared his enemies. Over the course of two years, Stelter spoke with over 250 current and former Fox insiders in an effort to understand the inner workings of Rupert Murdoch's multibillion-dollar media empire. Some of the confessions are alarming. "We don't really believe all this stuff," a producer says. "We just tell other people to believe it." At the center of the story lies Sean Hannity, a college dropout who, following the death of Fox News mastermind Roger Ailes, reigns supreme at the network that pays him \$30 million a year. Stelter describes the raging tensions inside Fox between the Trump loyalists and the few remaining journalists. He reveals why former chief news anchor Shep Smith resigned in disgust in 2019; why a former anchor said "if I stay here I'll get cancer;" and how Trump has exploited the leadership vacuum at the top to effectively seize control of the network. Including never before reported details, Hoax exposes the media personalities who, though morally bankrupt, profit outrageously by promoting the President's propaganda and radicalizing the American right. It is a book for anyone who reads the news and wonders: How did this happen?

## **Increasing Student Learning Through Multimedia Projects**

Laudato Si 'is Pope Francis' second encyclical which focuses on the theme of the environment. In fact, the Holy Father in his encyclical urges all men and women of good will, the rulers and all the powerful on earth to reflect deeply on the theme of the environment and the care of our planet. This is our common home, we must take care of it and love it - the Holy Father tells us - because its end is also ours.

## **Internet of Things**

NEW YORK TIMES and WALL STREET JOURNAL  
BESTSELLER ONE OF THE WASHINGTON POST'S 10  
BEST BOOKS OF 2015 One of the world's leading  
authorities on global security, Marc Goodman takes  
readers deep into the digital underground to expose  
the alarming ways criminals, corporations, and even  
countries are using new and emerging technologies  
against you—and how this makes everyone more  
vulnerable than ever imagined. Technological  
advances have benefited our world in immeasurable  
ways, but there is an ominous flip side: our  
technology can be turned against us. Hackers can  
activate baby monitors to spy on families, thieves are  
analyzing social media posts to plot home invasions,  
and stalkers are exploiting the GPS on smart phones  
to track their victims' every move. We all know  
today's criminals can steal identities, drain online  
bank accounts, and wipe out computer servers, but  
that's just the beginning. To date, no computer has  
been created that could not be hacked—a sobering  
fact given our radical dependence on these machines  
for everything from our nation's power grid to air

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traffic control to financial services. Yet, as ubiquitous as technology seems today, just over the horizon is a tidal wave of scientific progress that will leave our heads spinning. If today's Internet is the size of a golf ball, tomorrow's will be the size of the sun. Welcome to the Internet of Things, a living, breathing, global information grid where every physical object will be online. But with greater connections come greater risks. Implantable medical devices such as pacemakers can be hacked to deliver a lethal jolt of electricity and a car's brakes can be disabled at high speed from miles away. Meanwhile, 3-D printers can produce AK-47s, bioterrorists can download the recipe for Spanish flu, and cartels are using fleets of drones to ferry drugs across borders. With explosive insights based upon a career in law enforcement and counterterrorism, Marc Goodman takes readers on a vivid journey through the darkest recesses of the Internet. Reading like science fiction, but based in science fact, *Future Crimes* explores how bad actors are primed to hijack the technologies of tomorrow, including robotics, synthetic biology, nanotechnology, virtual reality, and artificial intelligence. These fields hold the power to create a world of unprecedented abundance and prosperity. But the technological bedrock upon which we are building our common future is deeply unstable and, like a house of cards, can come crashing down at any moment. *Future Crimes* provides a mind-blowing glimpse into the dark side of technological innovation and the unintended consequences of our connected world. Goodman offers a way out with clear steps we must take to survive the progress unfolding before us. Provocative, thrilling, and ultimately empowering, *Future Crimes*

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will serve as an urgent call to action that shows how we can take back control over our own devices and harness technology's tremendous power for the betterment of humanity—before it's too late. From the Hardcover edition.

## **Lost Connections**

Explores the New Testament book of Revelation in a historical first-century context, reinterpreting the book as a scathing attack on the decadence of Rome that was subsequently adopted by early Christians as a weapon against heresy.

## **Future Crimes**

The Pulitzer Prize-winning authors of *Ants* present a lavishly detailed account of the extraordinary lives of social insects that draws on more than two decades of research and offers insight into how bees, termites, and other insect societies thrive in systems of altruistic cooperation, complex communication, and labor division. 50,000 first printing.

## **The Anarchist Cookbook**

NEW YORK TIMES BESTSELLER WASHINGTON POST BESTSELLER Winner of the getAbstract 17th International Book Award "The Seventh Sense is a concept every businessman, diplomat, or student should aspire to master--a powerful idea, backed by stories and figures that will be impossible to forget." -- Walter Isaacson, author of *Steve Jobs* and *Leonardo*

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da Vinci Endless terror. Refugee waves. An unfixable global economy. Surprising election results. New billion-dollar fortunes. Miracle medical advances. What if they were all connected? What if you could understand why? The Seventh Sense is the story of what all of today's successful figures see and feel: the forces that are invisible to most of us but explain everything from explosive technological change to uneasy political ripples. The secret to power now is understanding our new age of networks. Not merely the Internet, but also webs of trade, finance, and even DNA. Based on his years of advising generals, CEOs, and politicians, Ramo takes us into the opaque heart of our world's rapidly connected systems and teaches us what the losers are not yet seeing--and what the victors of this age already know.

## **Essential Questions**

Living with the Stars describes the many fascinating connections between the universe and the human body, which range from the makeup of DNA and human cells, growth and aging, to stellar evolution and the beginning of the universe. This popular science book should be of interest to anyone who wonders about the processes going on in our human bodies that connect us to our environment on Earth, to the Solar System, to the stars in our Galaxy, and even to the origin of the universe.

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