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On January 15, 2009, a US Airways Airbus A320 had just taken off from LaGuardia Airport in New York when a flock of Canada geese collided with it, destroying both of its engines. Over the next three minutes, the plane's pilot, Chesley "Sully" Sullenberger, managed to glide it to a safe landing in the Hudson River. It was an instant media sensation, the "Miracle on the Hudson," and Captain Sully was the hero. But how much of the success of this dramatic landing can actually be credited to the genius of the pilot? To what extent is the "miracle" on the Hudson the result of extraordinary—but not widely known, and in some cases quite controversial—advances in aviation and computer technology over the past twenty years? In *Fly by Wire*, one of America's greatest journalists takes us on a strange and unexpected journey into the fascinating world of advanced aviation. From the testing laboratories where engineers struggle to build a jet engine that can systematically resist bird attacks, through the creation of the A320 in France, to the political and social forces that have sought to minimize the impact of the revolutionary fly-by-wire technology, William Langewiesche assembles the untold stories necessary to truly understand the "miracle" on the Hudson, and makes us question our assumptions about human beings in modern aviation. Special edition of Paul Harding's Pulitzer Prize-winning debut novel—featuring a new foreword by Marilynne Robinson and book club extras inside In this deluxe tenth anniversary edition, Marilynne Robinson introduces the beautiful novel *Tinkers*, which begins with an old man who lies

dying. As time collapses into memory, he travels deep into his past, where he is reunited with his father and relives the wonder and pain of his impoverished New England youth. At once heartbreaking and life affirming, *Tinkers* is an elegiac meditation on love, loss, and the fierce beauty of nature. The story behind this New York Times bestselling debut novel—the first independently published Pulitzer Prize winner since *A Confederacy of Dunces* received the award nearly thirty years before—is as extraordinary as the elegant prose within it. Inspired by his family’s history, Paul Harding began writing *Tinkers* when his rock band broke up. Following numerous rejections from large publishers, Harding was about to shelve the manuscript when Bellevue Literary Press offered a contract. After being accepted by BLP, but before it was even published, the novel developed a following among independent booksellers from coast to coast. Readers and critics soon fell in love, and it went on to receive the Pulitzer Prize, prompting the New York Times to declare the novel’s remarkable success “the most dramatic literary Cinderella story of recent memory.” That story is still being written as readers across the country continue to discover this modern classic, which has now sold over half a million copies, proving once again that great literature has a thriving and passionate audience. Paul Harding is the author of two novels about multiple generations of a New England family: *Enon* and the Pulitzer Prize–winning *Tinkers*. He teaches at Stony Brook Southampton. **NEW YORK TIMES BUSINESS BEST SELLER** • A suspenseful behind-the-scenes look at the dysfunction that contributed to one of the worst tragedies in modern aviation: the 2018 and 2019 crashes of the Boeing 737 MAX. An "authoritative, gripping and finely detailed narrative that charts the decline of one of the great American companies" (New York Times Book Review), from the award-winning reporter for Bloomberg. Boeing is a century-old titan of industry. It played a major role in the early days of commercial flight, World War II bombing missions, and moon landings. The planemaker remains a cornerstone of the U.S. economy, as well as a linchpin in the awesome routine of modern air travel. But in 2018 and 2019, two crashes of the Boeing 737 MAX 8 killed 346 people. The crashes exposed a shocking pattern of malfeasance, leading to the biggest crisis in the company’s history—and one of the costliest corporate scandals ever. How did things go so horribly wrong at Boeing? *Flying Blind* is the definitive exposé of the disasters that transfixed the world. Drawing from exclusive interviews with current and former employees of Boeing and the FAA; industry executives and analysts; and family members of the victims, it reveals how a broken corporate culture paved the way for catastrophe. It shows how in the race to beat the competition and reward top executives, Boeing skimped on testing, pressured employees to meet unrealistic deadlines, and convinced regulators to put planes into service without properly equipping them or their pilots for flight. It examines how the company, once a treasured American innovator, became obsessed with the bottom line, putting shareholders over customers, employees, and communities. By Bloomberg investigative journalist Peter Robison, who covered Boeing as a beat reporter during the company’s fateful merger with McDonnell Douglas in the late ‘90s, this is the story of a business gone wildly off course. At once riveting and disturbing, it shows how an iconic company fell prey to a win-at-all-costs mentality, threatening an industry and endangering countless lives. This Simple Sabotage Field Manual, a genuine guide from the Second

World War, states that its purpose is to "characterize simple sabotage, to outline its possible effects, and to present suggestions for inciting and executing it." Among the other fine pieces of advice in this handy volume, one is encouraged to "switch address labels on enemy baggage", "let cutting tools grow dull", "forget to provide paper in toilets", and "change sign posts at intersections and forks; the enemy will go the wrong way and it may be miles before he discovers his mistakes." IN THIS STIRRING AND BEAUTIFULLY WRITTEN WAKE-UP CALL, psychiatrist Daniel Carlat exposes deeply disturbing problems plaguing his profession, revealing the ways it has abandoned its essential purpose: to understand the mind, so that psychiatrists can heal mental illness and not just treat symptoms. As he did in his hard-hitting and widely read New York Times Magazine article "Dr. Drug Rep," and as he continues to do in his popular watchdog newsletter, The Carlat Psychiatry Report, he writes with bracing honesty about how psychiatry has so largely forsaken the practice of talk therapy for the seductive—and more lucrative—practice of simply prescribing drugs, with a host of deeply troubling consequences. Psychiatrists have settled for treating symptoms rather than causes, embracing the apparent medical rigor of DSM diagnoses and prescription in place of learning the more challenging craft of therapeutic counseling, gaining only limited understanding of their patients' lives. Talk therapy takes time, whereas the fifteen-minute "med check" allows for more patients and more insurance company reimbursement. Yet DSM diagnoses, he shows, are premised on a good deal less science than we would think. Writing from an insider's perspective, with refreshing forthrightness about his own daily struggles as a practitioner, Dr. Carlat shares a wealth of stories from his own practice and those of others that demonstrate the glaring shortcomings of the standard fifteen-minute patient visit. He also reveals the dangers of rampant diagnoses of bipolar disorder, ADHD, and other "popular" psychiatric disorders, and exposes the risks of the cocktails of medications so many patients are put on. Especially disturbing are the terrible consequences of overprescription of drugs to children of ever younger ages. Taking us on a tour of the world of pharmaceutical marketing, he also reveals the inner workings of collusion between psychiatrists and drug companies. Concluding with a road map for exactly how the profession should be reformed, Unhinged is vital reading for all those in treatment or considering it, as well as a stirring call to action for the large community of psychiatrists themselves. As physicians and drug companies continue to work together in disquieting and harmful ways, and as diagnoses—and misdiagnoses—of mental disorders skyrocket, it's essential that Dr. Carlat's bold call for reform is heeded. Using the author's considerable experience of applying Mathcad to engineering problems, Engineering with Mathcad identifies the most powerful functions and features of the software and teaches how to apply these to create comprehensive engineering calculations. Many examples from a variety of engineering fields demonstrate the power and utility of Mathcad's tools, while also demonstrating how other software, such as Microsoft Excel spreadsheets, can be incorporated effectively. This simple, step-by-step approach makes this book an ideal Mathcad text for professional engineers as well as engineering and science students. A CD-ROM packaged with the book contains all the examples in the text and an evaluation version of the Mathcad software, enabling the reader to learn by doing and experiment by changing parameters. \* Identifies the key

Mathcad functions for creating comprehensive engineering calculations \* A step-by-step approach enables easy learning for professional engineers and students alike \* Includes a CD-ROM containing all the examples in the text and an evaluation version of the Mathcad software A driveline expert guides you through each step of the rebuild process for 8.8- and 9-inch axle assemblies, so you can confidently complete the work yourself. He explains in detail limited-slip and open differential disassembly, inspection, assembly, final calibration, and break-in. He also shows you how to identify worn ring-and-pinion gears, rebuild clutch packs, set the correct contact pattern for pinion and ring gears as well as the backlash, and much more. GM N Cars 1985-95 Shop Manual Haynes. 376 pgs., 902 ill. The premier source for journalists, now revised and updated for 2015. Does the White House tweet? Or does the White House post on Twitter? Can "text" be a verb and also a noun? When should you link? For anyone who writes--short stories or business plans, book reports or news articles--knotty choices of spelling, grammar, punctuation and meaning lurk in every line: Lay or lie? Who or whom? That or which? Is Band-Aid still a trademark? It's enough to send you in search of a Martini. (Or is that a martini?) Now everyone can find answers to these and thousands of other questions in the handy alphabetical guide used by the writers and editors of the world's most authoritative news organization. The guidelines to hyphenation, punctuation, capitalization and spelling are crisp and compact, created for instant reference in the rush of daily deadlines. The 2015 edition is a revised and condensed version of the classic guide, updated with solutions to problems that plague writers in the Internet age: · How to cite links and blogs · How to handle tweets, hashtags and other social-media content · How to use current terms like "transgender," or to choose thoughtfully between "same-sex marriage" and "gay marriage" With wry wit, the authors have created an essential and entertaining reference tool. Michael R. Lindeburg PE's FE Electrical and Computer Review Manual offers complete coverage to Electrical and Computer FE exam knowledge areas and the relevant elements—equations, figures, and tables—from the NCEES FE Reference Handbook. With 15 mini-exams to assess your grasp of the exam's knowledge areas, and concise explanations of thousands of equations and hundreds of figures and tables, the Review Manual contains everything you need you succeed on the Electrical and Computer FE exam. The Review Manual organizes the Handbook elements logically, grouping related concepts that the Handbook has in disparate locations. All Handbook elements are shown in blue for easy identification. Equations and their associated variations and values are clearly presented. Descriptions are succinct and supported by exam-like example problems, with step-by-step solutions to reinforce the theory and application of fundamental concepts. Thousands of terms are indexed to facilitate cross-referencing. Use the Review Manual in your FE Electrical and Computer exam preparation and get the power to pass the first time—guaranteed. Topics Covered Circuit Analysis and Linear Systems Communications and Signal Processing Computer Networks and Systems Control Systems Digital Systems Electromagnetics Electronics Engineering Economics Engineering Sciences Ethics and Professional Practice Mathematics Power Probability and Statistics Properties of Electrical Materials Software Development Key Features: Complete coverage of all exam knowledge areas. Equations, figures, and tables of the NCEES FE Reference Handbook to familiarize you with the reference you'll have on

exam day. Concise explanations supported by exam-like example problems, with step-by-step solutions to reinforce the theory and application of fundamental concepts. A robust index with thousands of terms to facilitate referencing. Binding: Paperback PPI, A Kaplan Company This design-savvy paperback uses beautiful photography of exploded and deconstructed objects to conjure the childlike joy of taking something apart to see how it works. In *Things Come Apart*, fifty design classics—arranged by size and intricacy—are beautifully displayed, piece by piece, exploding in midair and dissected in real-time, frame-by-frame video stills. Welcome to Todd McLellan's unique photographic vision of the material world. The new paperback edition of the best selling *Things Come Apart* comes equipped with a fresh, design-savvy package, and includes five new projects that reveal the inner workings of some of the world's most iconic designs. From SLR camera to mantle clock to espresso machine, from iPad to bicycle to grand piano, every single component of each object is made visible. In addition to showcasing the quality and elegance of older designs, these disassembled objects show that even the most intricate modern technologies can be broken down and understood. Stunning photography is interspersed with essays by notable figures from the world of restoration, DIY, and design innovation, who discuss historical examples of teardowns, disassembly, and reverse engineering. *Things Come Apart* conjures the childlike joy of taking something apart to see how it works, and will appeal to anyone with a curiosity about the material world. For around half of the couples who have trouble conceiving the cause of infertility is sperm-related. Intracytoplasmic sperm injection (ICSI) is the most common and successful treatment for male infertility. Here, the pioneers for the technique, along with authorities in the field, describe the underlying science of ICSI and other micromanipulation techniques. Practical advice for performing the techniques is covered in depth, including sperm selection, laser-assisted ICSI, and the use of piezo in ICSI. Examining the safety of ICSI in animal models as well as the impact of ICSI on the health and well-being of the children conceived through the procedure is discussed. This manual is an essential resource for clinical embryologists and laboratory personnel wishing to refine or develop techniques and improve outcomes. Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes. In this madcap journey, a bestselling journalist investigates psychopaths and the industry of doctors, scientists, and everyone else who studies them. The *Psychopath Test* is a fascinating journey through the minds of madness. Jon Ronson's exploration of a potential hoax being played on the world's top neurologists takes him, unexpectedly, into the heart of the madness industry. An influential psychologist who is convinced that many important CEOs and politicians are, in fact, psychopaths teaches Ronson how to spot these high-flying individuals by looking out for little telltale verbal and nonverbal clues. And so Ronson, armed with his new psychopath-spotting abilities, enters the corridors of power. He spends time with a death-squad leader institutionalized

for mortgage fraud in Coxsackie, New York; a legendary CEO whose psychopathy has been speculated about in the press; and a patient in an asylum for the criminally insane who insists he's sane and certainly not a psychopath. Ronson not only solves the mystery of the hoax but also discovers, disturbingly, that sometimes the personalities at the helm of the madness industry are, with their drives and obsessions, as mad in their own way as those they study. And that relatively ordinary people are, more and more, defined by their maddest edges. **NEW YORK TIMES BESTSELLER** • Bill Bryson, bestselling author of *A Short History of Nearly Everything*, takes us on a head-to-toe tour of the marvel that is the human body—with a new afterword for this edition. Bill Bryson once again proves himself to be an incomparable companion as he guides us through the human body—how it functions, its remarkable ability to heal itself, and (unfortunately) the ways it can fail. Full of extraordinary facts (your body made a million red blood cells since you started reading this) and irresistible Brysonesque anecdotes, *The Body* will lead you to a deeper understanding of the miracle that is life in general and you in particular. As Bill Bryson writes, “We pass our existence within this wobble of flesh and yet take it almost entirely for granted.” *The Body* will cure that indifference with generous doses of wondrous, compulsively readable facts and information. As addictive as it is comprehensive, this is Bryson at his very best, a must-read owner’s manual for every body. “Hello, my name is Thomas Thwaites, and I have made a toaster.” So begins *The Toaster Project*, the author’s nine-month-long journey from his local appliance store to remote mines in the UK to his mother’s backyard, where he creates a crude foundry. Along the way, he learns that an ordinary toaster is made up of 404 separate parts, that the best way to smelt metal at home is by using a method found in a fifteenth-century treatise, and that plastic is almost impossible to make from scratch. In the end, Thwaites’s homemade toaster—a haunting and strangely beautiful object—cost 250 times more than the toaster he bought at the store and involved close to two thousand miles of travel to some of Britain’s remotest locations. *The Toaster Project* may seem foolish, even insane. Yet, Thwaites’s quixotic tale, told with self-deprecating wit, helps us reflect on the costs and perils of our cheap consumer culture, and in so doing reveals much about the organization of the modern world. 101 tried-and-tested recipes for your Instant Pot that will change your life! Expert nutritionist Jenny Tschiesche’s tried-and-tested recipes provide a wealth of ideas for family meals from a 15-minute risotto to a leg of lamb. It can sauté vegetables in five minutes and cook a whole chicken in 20 so is it any wonder that the Instant Pot has taken the online community by a storm! The cult phenomenon that is the multifunctional electric cooker is able to slow cook, steam, pressure cook and even sauté. The combination of steam and pressure cooks food fast, making everything from tender roasts through to perfectly cooked curries in a flash. For active people and busy families it’s a miraculous time saver. Textures and tastes, which would otherwise take hours, can be created in minutes and healthy, nutritious meals are just a press of a button away! In *How to Super Tune and Modify Holley Carburetors*, best selling author Vizard explains the science, the function, and most importantly, the tuning expertise required to get your Holley carburetor to perform its best for your performance application. This manual provides guiding principles for the use of patent data in the context of S&T measurement, and recommendations for the compilation and interpretation of patent indicators in this

context. For Stirling engines to enjoy widespread application and acceptance, not only must the fundamental operation of such engines be widely understood, but the requisite analytic tools for the stimulation, design, evaluation and optimization of Stirling engine hardware must be readily available. The purpose of this design manual is to provide an introduction to Stirling cycle heat engines, to organize and identify the available Stirling engine literature, and to identify, organize, evaluate and, in so far as possible, compare non-proprietary Stirling engine design methodologies. This report was originally prepared for the National Aeronautics and Space Administration and the U. S. Department of Energy.

101 tried-and-tested recipes for your electric multi-cooker that will change your life! Expert nutritionist Jenny Tschiesche's tried-and-tested recipes provide a wealth of ideas for family meals from a 15-minute risotto to a leg of lamb. It can sauté vegetables in five minutes and cook a whole chicken in 20 so is it any wonder that the Instant Pot has taken the online community by a storm! The cult phenomenon that is the multifunctional electric cooker is able to slow cook, steam, pressure cook and even sauté. The combination of steam and pressure cooks food fast, making everything from tender roasts through to perfectly cooked curries in a flash. For active people and busy families it's a miraculous time saver. Textures and tastes, which would otherwise take hours, can be created in minutes and healthy, nutritious meals are just a press of a button away! A history of audiobooks, from entertainment & rehabilitation for blinded World War I soldiers to a twenty-first-century competitive industry. Histories of the book often move straight from the codex to the digital screen. Left out of that familiar account are nearly 150 years of audio recordings. Recounting the fascinating history of audio-recorded literature, Matthew Rubery traces the path of innovation from Edison's recitation of "Mary Had a Little Lamb" for his tinfoil phonograph in 1877, to the first novel-length talking books made for blinded World War I veterans, to today's billion-dollar audiobook industry. The Untold Story of the Talking Book focuses on the social impact of audiobooks, not just the technological history, in telling a story of surprising and impassioned conflicts: from controversies over which books the Library of Congress selected to become talking books—yes to Kipling, no to Flaubert—to debates about what defines a reader. Delving into the vexed relationship between spoken and printed texts, Rubery argues that storytelling can be just as engaging with the ears as with the eyes, and that audiobooks deserve to be taken seriously. They are not mere derivatives of printed books but their own form of entertainment. We have come a long way from the era of sound recorded on wax cylinders, when people imagined one day hearing entire novels on mini-phonographs tucked inside their hats. Rubery tells the untold story of this incredible evolution and, in doing so, breaks from convention by treating audiobooks as a distinctively modern art form that has profoundly influenced the way we read. Praise for The Untold Story of the Talking Book "If audiobooks are relatively new to your world, you might wonder where they came from and where they're going. And for general fans of the intersection of culture and technology, The Untold Story of the Talking Book is a fascinating read." —Neil Steinberg, Chicago Sun-Times "[Rubery] explores 150 years of the audio format with an imminently accessible style, touching upon a wide range of interconnected topics . . . Through careful investigation of the co-development of formats within the publishing industry, Rubery shines a light on overlooked pioneers of audio . . .

Rubery's work succeeds in providing evidence to 'move beyond the reductive debate' on whether audiobooks really count as reading, and establishes the format's rightful place in the literary family." —Mary Burkey, Booklist (starred review)

*Modeling, Simulation, Design and Engineering of WDM Systems and Networks* provides readers with the basic skills, concepts, and design techniques used to begin design and engineering of optical communication systems and networks at various layers. The latest semi-analytical system simulation techniques are applied to optical WDM systems and networks, and a review of the various current areas of optical communications is presented. Simulation is mixed with experimental verification and engineering to present the industry as well as state-of-the-art research. This contributed volume is divided into three parts, accommodating different readers interested in various types of networks and applications. The first part of the book presents modeling approaches and simulation tools mainly for the physical layer (including transmission effects, devices, subsystems, and systems), whereas the second part features more engineering/design issues for various types of optical systems including ULH, access, and in-building systems. The third part of the book covers networking issues related to the design of provisioning and survivability algorithms for impairment-aware and multi-domain networks. Intended for professional scientists, company engineers, and university researchers, the text demonstrates the effectiveness of computer-aided design when it comes to network engineering and prototyping. Over the last 50 years, literally millions of GM cars and trucks have been built with Turbo 400 automatic transmissions. While these transmissions are respected for their durability and versatility, there always comes a point where the old transmission shows signs of wear. At some point, even the best transmissions need to be rebuilt. Respected automotive technical author Cliff Ruggles takes readers through the complex rebuild procedure of GM's most popular rear-wheel drive automatic transmission in this great new book. Enthusiasts have embraced the reliable GM Turbo Hydra-Matic 400 three-speed automatics for years, and the popularity of these transmissions is not slowing down. With his proven style, Ruggles walks through the step-by-step rebuild and performance upgrade procedures in a series of full-color photos for each of these models. Time saving tips are part of every buildup. This is a welcome addition to your automotive library. Amateurs and professionals alike will appreciate the advice and guidance offered on every page. Even if you end up deciding to have a professional take care of your transmission repair and performance needs, this information is crucial to understanding how the power gets from the engine to the road. A New York Times Notable Book A Kirkus Reviews Best Book of 2012

A bold approach to understanding the American evangelical experience from an anthropological and psychological perspective by one of the country's most prominent anthropologists. Through a series of intimate, illuminating interviews with various members of the Vineyard, an evangelical church with hundreds of congregations across the country, Tanya Luhrmann leaps into the heart of evangelical faith. Combined with scientific research that studies the effect that intensely practiced prayer can have on the mind, *When God Talks Back* examines how normal, sensible people—from college students to accountants to housewives, all functioning perfectly well within our society—can attest to having the signs and wonders of the supernatural become as quotidian and as ordinary as laundry. Astute, sensitive, and extraordinarily



measured in its approach to the interface between science and religion, Luhmann's book is sure to generate as much conversation as it will praise. "Ted Koppel reveals that a major cyberattack on America's power grid is not only possible but likely--and that it would be devastating" and "examines a threat unique to our time and evaluates potential ways to prepare for a catastrophe"--Book jacket. 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 is 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. Digital Signal Processing, Second Edition enables electrical engineers and technicians in the fields of biomedical, computer, and electronics engineering to master the essential fundamentals of DSP principles and practice. Many instructive worked examples are used to illustrate the material, and the use of mathematics is minimized for easier grasp of concepts. As such, this title is also useful to undergraduates in electrical engineering, and as a reference for science students and practicing engineers. The book goes beyond DSP theory, to show implementation of algorithms in hardware and software. Additional topics covered include adaptive filtering with noise reduction and echo cancellations, speech compression, signal sampling, digital filter realizations, filter design, multimedia applications, over-sampling, etc. More advanced topics are also covered, such as adaptive filters, speech compression such as PCM, u-law, ADPCM, and multi-rate DSP and over-sampling ADC. New to this edition: MATLAB projects dealing with practical applications added throughout the book New chapter (chapter 13) covering sub-band coding and wavelet transforms, methods that have become popular in the DSP field New applications included in many chapters, including applications of DFT to seismic signals, electrocardiography data, and vibration signals All real-time C programs revised for the TMS320C6713 DSK Covers DSP principles with emphasis on communications and control applications Chapter objectives, worked examples, and end-of-chapter exercises aid the reader in grasping key concepts and solving related problems Website with MATLAB programs for simulation and C programs for real-time DSP Total Car Care is the most complete, step-by-step automotive repair manual you'll ever use. All repair procedures are supported by detailed specifications, exploded views, and photographs. From the simplest repair procedure to the most complex, trust Chilton's Total Car Care to give you everything you need to do the job. Save time and money by doing it yourself, with the confidence only a Chilton Repair Manual can provide. "Maintain your ride, think like a mechanic, get down and dirty under the hood"--from cover.

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