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Approach your WJEC/Eduqas GCSE 9-1 English Language exam with confidence using this write-in workbook full of annotated exam-style questions, sample answers and exam tips. Step-by-step guidance will help you to improve your exam technique so that your answers are clear, relevant and well-developed. Use the carefully chosen questions to get used to the kind of questions you can expect to see in your exam and the different ways that you should approach them. The easy to understand advice will help you to: - Understand what exam questions are asking you to do in each question - Evaluate, develop and explain your personal responses to extracts - Remember to spend the right amount of time on each question and avoid other common mistakes - Show examiners that you understand key terms and techniques Snoopy's brother, Spike is coming for a visit and the Cat Next door isn't happy about it at all.

From the No. 1 bestselling author of What If? - the man who created xkcd and explained the laws of science with cartoons - comes a series of brilliantly simple diagrams ('blueprints' if you want to be complicated about it) that show how important things work: from the nuclear bomb to the biro. It's good to know what the parts of a thing are called, but it's much more interesting to know what they do. Richard Feynman once said that if you can't explain something to a first-year student, you don't really get it. In Thing Explainer, Randall Munroe takes a quantum leap past this: he explains things using only drawings and a vocabulary of just our 1,000 (or the ten hundred) most common words. Many of the things we use every day - like our food-heating radio boxes ('microwaves'), our very tall roads ('bridges'), and our computer rooms ('datacentres') - are strange to us. So are the other worlds around our sun (the solar system), the big flat rocks we live on (tectonic plates), and even the stuff inside us (cells). Where do these things come from? How do they work? What do they look like if you open them up? And what would happen if we heated them up, cooled them down, pointed them in a different direction, or pressed this button? In Thing Explainer, Munroe gives us the answers to these questions and many, many more. Funny, interesting, and always understandable, this book is for anyone -- age 5 to 105 -- who has ever wondered how things work, and why.

In 2011, I began creating online tutorial videos on Youtube, with a vision to share my GCSE expertise in English language and literature. As I write, these videos have been viewed over 10 million times across 214 different nations. My GCSE English Youtube channel has over 60,000 subscribers. To accompany these videos, I have published over 20 revision guide eBooks-one of which you are currently looking at! My guide to the previous GCSEs in English language and literature sat at the top of the Amazon bestseller's list for over 45 weeks and achieved huge acclaim; this book aims to build on those strengths.In this ebook, you'll receive detailed guidance on every question in the AQA GCSE English Language exams. Please note that this ebook is not endorsed by or affiliated to any exam boards; I am simply an experienced teacher using my expertise to help students. However, if you read some of the 100+ reviews for this guide, you will see that it has already helped students, teachers and parents across the UK.As an extra bonus, this ebook contains links to five special video tutorials which are only available to those who purchase this guide. These links appear later in the text. I hope you enjoy the ebook. You should also purchase the accompanying eBook which covers the English Literature exams.

'If you have kids transitioning from primary to secondary school, this book is for you (well, for your kids!) ... Helpful, funny and encouraging' - Sarah Turner AKA The Unmumsy Mum The bestselling back to school handbook, from the nation's favourite head teacher, Mr Burton. Secondary school can seem scary. Corridors are wide, older students look terrifying and there's homework, messy friendships and stressful exams to deal with. But, whether you're about to land at secondary school or you're still settling in, Mr Burton is here to guide you through your journey - worry-free. From your first day to your final exams, this handbook will have you achieving, succeeding and being the best you can be. Find great friends, boost your confidence and start building toward your brilliant future. Written by head teacher and star of Educating Yorkshire, Mr Matthew Burton, this is the ultimate secondary school survival guide.

The phenomenal Sunday Times bestseller Periodic Tales by Hugh Andersey-Williams, packed with fascinating stories and unexpected information about the building blocks of our universe. Everything in the universe is made of them, including you. Like you, the elements have personalities, attitudes, talents, shortcomings, stories rich with meaning. Here you'll meet iron that rains from the heavens and noble gases that light the way to vice. You'll learn how lead can tell your future while zinc may one day line your coffin. You'll discover what connects the bones in your body with the Whitehouse in Washington, the glow of a streetlamp with the salt on your dinner table. Unlocking their astonishing secrets and colourful pasts, Periodic Tales is a voyage of wonder and discovery, showing that their stories are our stories, and their lives are inextricable from our own. 'Science writing at its best. A fascinating and beautiful literary anthology, bringing them to life as personalities. If only chemistry had been like this at school. A rich compilation of delicious tales'Matt Ridley, Prospect 'A love letter to the chemical elements. Aldersey-Williams is full of good stories and he knows how to tell them well'Sunday Telegraph 'Great fun to read and an endless fund of unlikely and improbable anecdotes'Financial Times 'The history, science, art, literature and everyday applications of all the elements from aluminium to zinc' The Times Hugh Aldersey-Williams studied natural sciences at Cambridge. He is the author of several books exploring science, design and architecture and has curated exhibitions at the Victoria and Albert Museum and the Wellcome Collection. He lives in Norfolk with his wife and son.

Astrobiology is the study of the origin, evolution, distribution, and future of life in the universe. It is an inherently interdisciplinary field that encompasses astronomy, biology, geology, heliophysics, and planetary science, including complementary laboratory activities and field studies conducted in a wide range of terrestrial environments. Combining inherent scientific interest and public appeal, the search for life in the solar system and beyond provides a scientific rationale for many current and future activities carried out by the National Aeronautics and Science Administration

(NASA) and other national and international agencies and organizations. Requested by NASA, this study offers a science strategy for astrobiology that outlines key scientific questions, identifies the most promising research in the field, and indicates the extent to which the mission priorities in existing decadal surveys address the search for life's origin, evolution, distribution, and future in the universe. This report makes recommendations for advancing the research, obtaining the measurements, and realizing NASA's goal to search for signs of life in the universe.

This book presents new technologies which are available now for the rehabilitation of visual acuity in patients suffering from keratoconusand for arresting the progression of this frustrating disease. All these current treatment options in differing combinations aim to improve the quality of life of the patients and although successful, they are causing confusion for the ophthalmologists; what procedure to do and when? How to perform? Which combination of treatments to choose? Controversies in the Management of Keratoconusprovidesthe widely used treatment options for keratoconus including collagen corneal cross –linking (CXL) covering all the available techniques, intrastromal corneal ring segments (ICRS) , phakic intra-ocular lenses (IOLs), photorefractive keratectomy (PRK) combined or not with CXL penetrating keratoplasty (PK) and deep anterior lamellar keratoplasty (DALK). Each treatment is addressed by more than one author with different points of view in order to present the various approaches, the logic behind them and the most relevant clinical data available.A chapter by the editor tries to put some light on how to navigate among these controversies. This book will be of interest to trainees as well as the specialized ophthalmologists.

In 1999, Andrew Smith was interviewing Charlie Duke, astronaut and moon walker, for the Sunday Times. During the course of the interview, which took place at Duke's Texan home, the telephone rang and Charlie left the room to answer it. When he returned, some twenty minutes later, he seemed visibly upset. It seemed that he'd just heard that, the previous day, one of his fellow moon walkers, the astronaut Pete Conrad, had died. The more Charlie spoke the more Andrew realised that his grief was something more than the mere fact of losing a friend. 'Now theres only nine of us,' he said. Only nine. Which meant that, one day not long from now, there would be none, and when that day came, no one on earth would have known the giddy thrill of gazing back at us from the surface of the moon. The thought shocked Andrew, and still does. Moondust is his attempt to understand why. The Apollo moon programme has been called the last optimistic act of the 20th Century. Over a strange three year period between 1969 and 1972, twelve men made the longest and most eccentric of all journeys, and all were indelibly marked by it. In Moondust Andrew sets out to interview all the remaining astronauts who walked on the moon, and to find out how their lives were changed for ever by what had happened. 'Where do you go after you've been to the moon?' In addition to this question that would prove hugely troubling to many of the returned astronauts, they also had to deal with the fantasies of faceless millions at their backs, for this was the first truly global media event. The walkers would forever be caught between the gravitational pull of the moon and the earth's collective dreaming.

As the economies of many countries become more interrelated, international managers are facing huge challenges and unique opportunities associated with their roles. Now in its fifth edition, Sweeney and McFarlin's International Management embodies a balanced and integrated approach to the subject, emphasizing the strategic opportunities available to firms on a global playing field, as well as exploring the challenges of managing an international workforce. Integrating theory and practice across all chapter topics, this book helps students to learn, grasp, and apply the underlying principles of successful international management: Understanding the broad context of international business, including the critical trends impacting international management, the legal and political forces driving international business, and the ethical and cultural dilemmas that can arise Mastering the essential elements of effective interaction in the international arena, from cross-cultural understanding and communication to cross-border negotiation Recognizing and taking advantage of strategic opportunities, such as entering and operating in foreign markets Building and leading effective international teams, including personal and behavioral motivation, as well as taking an international perspective on the hiring, training, and development of employees These principles are emphasized in the text with current examples and practical applications, establishing a foundation for students to apply their understanding in the current global business environment. With a companion website featuring an instructor's manual, powerpoint slides, and a testbank, International Management, 5e is a superb resource for instructors and students of international management.

A comedian and Moth veteran lays out useful tips and tricks for maximizing the impact of your stories—so you can nail it every time Do you ever wish you could tell a story that leaves others spellbound? Comedian, Upright Citizens Brigade storytelling program founder, and Moth champion Margot Leitman will show you how in this practical guide to storytelling. Using a fun, irreverent, and infographic approach, Long Story Short breaks a story into concrete components. From content and structure to emotional impact and delivery, Leitman guides you through the entire storytelling process, providing personal anecdotes, relatable examples, and practical exercises along the way. Using a fun, irreverent, and infographic approach, Long Story Short breaks a story into concrete components. From content and structure to emotional impact and delivery, Leitman guides you through the entire storytelling process, providing personal anecdotes, relatable examples, and practical exercises along the way.

In this book the Groupe des Dombes a widely respected yet unofficial dialogue of Reformed, Lutheran, and Catholic scholars from French-speaking Europe undertakes a comprehensive study of the complex issue of doctrinal authority in the church. This includes the role of Scripture, of confessional texts, of decision-making bodies, and of individual persons entrusted with authority in service to the unity of faith. / While a number of previous ecumenical dialogues have studied the question of authority with a particular focus on the ministry of the Bishop of Rome, the Groupe des Dombes lays out the complex constellation of questions that is at issue in the differing ethos of Protestant and Catholic traditions. Its challenge to the churches reflects the agenda of ecumenical dialogue for decades to come.

Taking a hard look at the societal constraints on teenage girls, Morris Award nominee Carrie Mesrobian tells one girl's

story with bracing honesty and refreshing authenticity. By her senior year of high school, Rianne has exhausted all the fun there is to have in small-town Wereford, Minnesota. Volleyball season is winding down, the parties feel tired, and now that she's in a serious relationship with reformed player Luke Pinsky, her wild streak has ended. Not that she ever did anything worse than most guys in her school...but she knows what everyone thinks of her. Including her parents. Divorced but now inexplicably living together again, Rianne wonders why they're so quick to point out every bad choice she's making when they can't even act like adults—or have the decency to tell Rianne whether or not they're getting back together. With an uncomfortable home life and her once-solid group of friends now dissolving, the reasons for sticking around after high school are few. So why is Rianne locking step when it comes to figuring out her future? That's not the only question Rianne can't answer. Lately she's been wondering why, when she has a perfect-on-paper boyfriend, she wants anything but. Or how it is that Sergei, a broken-English-speaking Russian, understands her better than anyone who's known her all her life? And—perhaps the most troubling question—why has Rianne gotten stuck with an "easy girl" reputation for doing the same exact things as guys without any judgment? Carrie Mesrobian, acclaimed author of Sex & Violence and Cut Both Ways, sets fire to the unfair stereotypes and contradictions that persist even in the twenty-first century.

To feed a world population that will exceed 9 billion by 2050 requires an estimated 60% increase over current primary agricultural productivity. Closing the common and often large gap between actual and attainable crop yield is critical to achieve this goal. To close yield gaps in both small and large scale cropping systems worldwide we need (1) definitions and techniques to measure and model yield at different levels (actual, attainable, potential) and different scales in space (field, farm, region, global) and time (short and long term); (2) identification of the causes of gaps between yield levels; (3) management options to reduce the gaps where feasible and (4) policies to favour adoption of sustainable gap-closing solutions. The aim of this publication is to critically review the methods for yield gap analysis, hence addressing primarily the first of these four requirements, reporting a wide-ranging and well-referenced analysis of literature on current methods to assess productivity of crops and cropping systems.

The two towering achievements of modern physics are quantum theory and Einstein's general theory of relativity. Together, they explain virtually everything about the world we live in. But, almost a century after their advent, most people haven't the slightest clue what either is about. Did you know that there's so much empty space inside matter that the entire human race could be squeezed into the volume of a sugar cube? Or that you grow old more quickly on the top floor of a building than on the ground floor? And did you realize that 1% of the static on a TV tuned between stations is the relic of the Big Bang? Marcus Chown, the bestselling author of What A Wonderful World and the Solar System app, explains all with characteristic wit, colour and clarity, from the Big Bang and Einstein's general theory of relativity to probability, gravity and quantum theory. 'Chown discusses special and general relativity, probablity waves, quantum entanglement, gravity and the Big Bang, with humour and beautiful clarity, always searching for the most vivid imagery.' Steven Poole, Guardian

The only complete guide to all aspects and uses of simulation-from the international leaders in the field There has never been a single definitive source of key information on all facets of discrete-event simulation and its applications to major industries. The Handbook of Simulation brings together the contributions of leading academics, practitioners, and software developers to offer authoritative coverage of the principles, techniques, and uses of discrete-event simulation. Comprehensive in scope and thorough in approach, the Handbook is the one reference on discrete-event simulation that every industrial engineer, management scientist, computer scientist, operations manager, or operations researcher involved in problem-solving should own, with an in-depth examination of: * Simulation methodology, from experimental design to data analysis and more * Recent advances, such as object-oriented simulation, on-line simulation, and parallel and distributed simulation * Applications across a full range of manufacturing and service industries * Guidelines for successful simulations and sound simulation project management * Simulation software and simulation industry vendors A journal for the farm, the garden, and the fireside, devoted to improvement in agriculture, horticulture, and rural taste; to elevation in mental, moral, and social character, and the spread of useful knowledge and current news.

The 25th Anniversary ebook, now with more than 50 images. 'Touching the Void' is the tale of two mountaineer's harrowing ordeal in the Peruvian Andes. In the summer of 1985, two young, headstrong mountaineers set off to conquer an unclimbed route. They had triumphantly reached the summit, when a horrific accident mid-descent forced one friend to leave another for dead. Ambition, morality, fear and camaraderie are explored in this electronic edition of the mountaineering classic, with never before seen colour photographs taken during the trip itself.

In 1994, the Italian National Library discovered a missing manuscript believed to have been the work of Nostradamus. Here, John Matthews and Wil Kinghan bring to life the ultimate oracle from the world's primary prognosicator.

Mr Bruff's Guide to GCSE English Language

Have you ever wondered why ice floats and water is such a freaky liquid? Or why chillies and mustard are both hot but in different ways? Or why microwaves don't cook from the inside out? In this fascinating scientific tour of household objects, The One Show presenter and all-round Science Bloke Marty Jopson has the answer to all of these, and many more, baffling questions about the chemistry and physics of the everyday stuff we use every day.

A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

Learn how to build your own computer vision (CV) applications quickly and easily with SimpleCV, an open source framework written in Python. Through examples of real-world applications, this hands-on guide introduces you to basic CV techniques for collecting, processing, and analyzing streaming digital images. You'll then learn how to apply these methods with SimpleCV, using sample Python code. All you need to get started is a Windows, Mac, or Linux system, and

a willingness to put CV to work in a variety of ways. Programming experience is optional. Capture images from several sources, including webcams, smartphones, and Kinect Filter image input so your application processes only necessary information Manipulate images by performing basic arithmetic on pixel values Use feature detection techniques to focus on interesting parts of an image Work with several features in a single image, using the NumPy and SciPy Python libraries Learn about optical flow to identify objects that change between two image frames Use SimpleCV's command line and code editor to run examples and test techniques

Additive Manufacturing for the Aerospace Industry explores the design, processing, metallurgy and applications of additive manufacturing (AM) within the aerospace industry. The book's editors have assembled an international team of experts who discuss recent developments and the future prospects of additive manufacturing. The work includes a review of the advantages of AM over conventionally subtractive fabrication, including cost considerations. Microstructures and mechanical properties are also presented, along with examples of components fabricated by AM. Readers will find information on a broad range of materials and processes used in additive manufacturing. It is ideal reading for those in academia, government labs, component fabricators, and research institutes, but will also appeal to all sectors of the aerospace industry. Provides information on a broad range of materials and processes used in additive manufacturing Presents recent developments in the design and applications of additive manufacturing specific to the aerospace industry Covers a wide array of materials for use in the additive manufacturing of aerospace parts Discusses current standards in the area of aerospace AM parts

One of the world's most beloved and bestselling writers takes his ultimate journey -- into the most intriguing and intractable questions that science seeks to answer. In A Walk in the Woods, Bill Bryson trekked the Appalachian Trail -- well, most of it. In In A Sunburned Country, he confronted some of the most lethal wildlife Australia has to offer. Now, in his biggest book, he confronts his greatest challenge: to understand -- and, if possible, answer -- the oldest, biggest questions we have posed about the universe and ourselves. Taking as territory everything from the Big Bang to the rise of civilization, Bryson seeks to understand how we got from there being nothing at all to there being us. To that end, he has attached himself to a host of the world's most advanced (and often obsessed) archaeologists, anthropologists, and mathematicians, travelling to their offices, laboratories, and field camps. He has read (or tried to read) their books, pestered them with questions, apprenticed himself to their powerful minds. A Short History of Nearly Everything is the record of this quest, and it is a sometimes profound, sometimes funny, and always supremely clear and entertaining adventure in the realms of human knowledge, as only Bill Bryson can render it. Science has never been more involving or entertaining.

Technology is at the heart of learning for all of us and every teacher needs to be using social media, mobile technologies and transformational digital learning opportunities as an integral part of their range of strategies for helping students make the maximum progress. In this book in the 'Perfect' series, Mark Anderson, the ICT Evangelist, takes the technology-relatedelements of all the recent subject reports from Ofsted and using them offers clear and practical strategies that are proven to be successful in classrooms and offers up ideas for how they can be turned into a daily reality for all teachers.

This book provides glimpses into contemporary research in information systems & technology, learning, artificial intelligence (AI), machine learning, and security and how it applies to the real world, but the ideas presented also span the domains of telehealth, computer vision, the role and use of mobile devices, brain–computer interfaces, virtual reality, language and image processing and big data analytics and applications. Great research arises from asking pertinent research questions. This book reveals some of the authors' "beautiful questions" and how they develop the subsequent "what if" and "how" questions, offering readers food for thought and whetting their appetite for further research by the same authors.

"Eccentric characters shuffle and strut in and out of Doyle's tale and breathe life into this unusual history of surfing." - Honolulu Star Bulletin "Full of humor and inside stories that capture the youthful joy and innocence of the formative years of the California beach culture." - San Diego Union-Tribune "Morning Glass is a thoughtful portrait of a man enthralled with the ocean." - Orange County Register "Mike has an incredible story to tell and every surfer who believes surfing is more than just a hobby must read it." - Surfing Magazine "He came from a period when surf heroes were individuals, each with a distinct personality and character.... I suspect his revelations may ruffle a few feathers." - Steve Pezman, Surfer's Journal

NEW YORK TIMES BESTSELLER Zero Belly Diet is the revolutionary new plan to turn off your fat genes and help keep you lean for life! Nutrition expert David Zinczenko—the New York Times bestselling author of the Abs Diet series, Eat This, Not That! series, and Eat It to Beat It!—has spent his entire career learning about belly fat—where it comes from and what it does to us. And what he knows is this: There is no greater threat to you and your family—to your health, your happiness, even your financial future. Yes, you can: Change your destiny. Overcome your fat genes. Strip away belly fat and finally attain the lean, strong, healthy body you've always wanted. With Zero Belly Diet, David Zinczenko reveals explosive new research that explains the mystery of why some of us stay thin, and why some can't lose weight no matter how hard we try. He explains how some foods turn our fat genes on—causing seemingly irreversible weight gain—and uncovers the nine essential power foods that act directly on those switches, turning them to "off" and allowing for easy, rapid, and sustainable weight loss. And he shows how these foods help heal your digestive system, keeping those gene switches turned off and setting you up for a lifetime of leanness. Other diets can help you lose weight, but only the Zero Belly diet attacks fat on a genetic level, placing a bull's-eye on the fat cells that matter most: visceral fat, the type of fat ensconced in your belly. These fat cells act like an invading army, increasing inflammation and putting you at risk for diabetes, Alzheimer's, arthritis, heart disease, and cancer. Visceral fat can also can alter your hormone levels, erode muscle tissue, increase your chances of depression, and destroy your sex drive. But you can turn the odds in your favor. Zero Belly Diet shows you how to deactivate your fat genes, rev up your metabolism, banish bloat, and balance your digestive health, allowing you to easily build lean, strong stomach muscle and strip away unwanted belly fat without sacrificing calories or spending hours at the gym. The result: weight loss that is easier, faster, more lasting, and more delicious than you'd ever imagine. You'll be stunned and inspired by the results of an amazing 500-person test panel—men and women who lost weight quickly, and with ease, following the Zero Belly diet. In just the first 14 days: Bob McMicken, 51, lost 16.3 pounds Kyle Cambridge, 28, lost 15 pounds Martha Chesler, 54, lost 11 pounds Matt Brunner, 43, lost 14 pounds Zero Belly Diet features a week-by-week menu plan, fifty tasty recipes, and a handy shopping list that leads to a minimum of cooking and plenty of feasting. Best of all, Zero Belly Diet

offers something more: freedom. Freedom from bloating, freedom from food deprivation, freedom from weight loss fads, freedom from stress. So say goodbye to your paunch and hello to a happier, healthier you!

Introduction to Probability Models, Tenth Edition, provides an introduction to elementary probability theory and stochastic processes. There are two approaches to the study of probability theory. One is heuristic and nonrigorous, and attempts to develop in students an intuitive feel for the subject that enables him or her to think probabilistically. The other approach attempts a rigorous development of probability by using the tools of measure theory. The first approach is employed in this text. The book begins by introducing basic concepts of probability theory, such as the random variable, conditional probability, and conditional expectation. This is followed by discussions of stochastic processes, including Markov chains and Poison processes. The remaining chapters cover queuing, reliability theory, Brownian motion, and simulation. Many examples are worked out throughout the text, along with exercises to be solved by students. This book will be particularly useful to those interested in learning how probability theory can be applied to the study of phenomena in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. Ideally, this text would be used in a one-year course in probability models, or a one-semester course in introductory probability theory or a course in elementary stochastic processes. New to this Edition: 65% new chapter material including coverage of finite capacity queues, insurance risk models and Markov chains Contains compulsory material for new Exam 3 of the Society of Actuaries containing several sections in the new exams Updated data, and a list of commonly used notations and equations, a robust ancillary package, including a ISM, SSM, and test bank Includes SPSS PASW Modeler and SAS JMP software packages which are widely used in the field Hallmark features: Superior writing style Excellent exercises and examples covering the wide breadth of coverage of probability topics Real-world applications in engineering, science, business and economics

Suitable for all examination specifications for students over 16, this friendly and reliable guide leads students through examples of each problem.

A nationally acclaimed sewing expert provides simple, step-by-step directions and more than 1,000 illustrations for making clothes for work, home, and play — everything from stylish skirts, dresses, and jackets to children's clothing.

The Definitive Guide to MongoDB, Second Edition, is updated for the latest version and includes all of the latest MongoDB features, including the aggregation framework introduced in version 2.2 and hashed indexes in version 2.4. MongoDB is the most popular of the "Big Data" NoSQL database technologies, and it's still growing. David Hows from 10gen, along with experienced MongoDB authors Peter Membrey and Eelco Plugge, provide their expertise and experience in teaching you everything you need to know to become a MongoDB pro. What you'll learn Set up MongoDB on all major server platforms, including Windows, Linux, OS X, and cloud platforms like Rackspace, Azure, and Amazon EC2 Work with GridFS and the new aggregation framework Work with your data using non-SQL commands Write applications using either PHP or Python Optimize MongoDB Master MongoDB administration, including replication, replication tagging, and tag-aware sharding Who this book is for Database admins and developers who need to get up to speed on MongoDB and its Big Data, NoSQL approach to dealing with data management. Table of ContentsPart I: MongoDB Basics Ch. 1: Introduction to MongoDB Ch. 2: Installing MongoDB Ch. 3: The Data Model Ch. 4: Working with Data Ch. 5: GridFS Part II: Developing with MongoDB Ch. 6: PHP and MongoDB Ch. 7: Python and MongoDB Ch. 8: Advanced Queries Part III: Advanced MongoDB with Big Data Ch. 9: Database Administration Ch. 10: Optimization Ch. 11: Replication Ch. 12: Sharding

MEET YOUR GOALS—ON TIME AND ON BUDGET. How do you rein in the scope of your project when you've got a group of demanding stakeholders breathing down your neck? And map out a schedule everyone can stick to? And motivate team members who have competing demands on their time and attention? Whether you're managing your first project or just tired of improvising, this guide will give you the tools and confidence you need to define smart goals, meet them, and capture lessons learned so future projects go even more smoothly. The HBR Guide to Project Management will help you: Build a strong, focused team Break major objectives into manageable tasks Create a schedule that keeps all the moving parts under control Monitor progress toward your goals Manage stakeholders' expectations Wrap up your project and gauge its success

Human Factors in Practice: Concepts and Applications is written for the practitioner who wishes to learn about human factors (HF) but is more interested in application (applied research) than theory (basic research). Each chapter discusses the application of important human factors theories, principles and concepts, presented at a level that can be easily understood by layman readers with no prior knowledge or formal education in human factors. The book illustrates to the non-HF practitioner the many varied domains in which human factors has been applied as well as serving to showcase current research in these areas. All chapters address the common overarching theme of applying human factors theories, principles and concepts to address real-world problems, and follow a similar structure to ensure consistency across chapters. Standard sections within each chapter include a discussion of the scientific underpinnings, a description of relevant HF methods and guidance on sources of further information, case studies to illustrate application, and a summary of likely future trends. Each chapter concludes with a short list of key terms and definitions to enhance the reader's understanding of the content. Featuring specialist contributors from a variety of disciplines and cultural backgrounds, the book represents a diverse range of perspectives on human factors and will appeal to a broad international audience. It is consciously not a classroom textbook but rather intended to be read at the workplace by non-HF practitioners, and written specifically with their needs in mind. Reading this book will give all practitioners a solid grounding in modern human factors and its application in real-world situations.

Statistical methods are a key part of of data science, yet very few data scientists have any formal statistics training. Courses and books on basic statistics rarely cover the topic from a data science perspective. This practical guide explains how to apply various statistical methods to data science, tells you how to avoid their misuse, and gives you advice on what's important and what's not. Many data science resources incorporate statistical methods but lack a deeper statistical perspective. If you're familiar with the R programming language, and have some exposure to statistics, this quick reference bridges the gap in an accessible, readable format. With this book, you'll learn: Why exploratory data analysis is a key preliminary step in data science How random sampling can reduce bias and yield a higher quality dataset, even with big data How the principles of experimental design yield definitive answers to questions How to use regression to estimate outcomes and detect anomalies Key classification techniques for predicting which categories a record belongs to Statistical machine learning methods that "learn" from data Unsupervised learning methods for extracting meaning from unlabeled data

The old saying goes, "To the man with a hammer, everything looks like a nail." But anyone who has done any kind of project

knows a hammer often isn't enough. The more tools you have at your disposal, the more likely you'll use the right tool for the job - and get it done right. The same is true when it comes to your thinking. The quality of your outcomes depends on the mental models in your head. And most people are going through life with little more than a hammer. Until now. The Great Mental Models: General Thinking Concepts is the first book in The Great Mental Models series designed to upgrade your thinking with the best, most useful and powerful tools so you always have the right one on hand. This volume details nine of the most versatile, all-purpose mental models you can use right away to improve your decision making, productivity, and how clearly you see the world. You will discover what forces govern the universe and how to focus your efforts so you can harness them to your advantage, rather than fight with them or worse yet- ignore them. Upgrade your mental toolbox and get the first volume today. AUTHOR BIOGRAPHY Farnam Street (FS) is one of the world's fastest growing websites, dedicated to helping our readers master the best of what other people have already figured out. We curate, examine and explore the timeless ideas and mental models that history's brightest minds have used to live lives of purpose. Our readers include students, teachers, CEOs, coaches, athletes, artists, leaders, followers, politicians and more. They're not defined by gender, age, income, or politics but rather by a shared passion for avoiding problems, making better decisions, and lifelong learning. AUTHOR HOME Ottawa, Ontario, Canada

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