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Elements of Fiction Writing - Conflict and Suspense

Ramp up the tension and keep your readers hooked! Inside you'll find everything you need to know to spice up your story, move your plot forward, and keep your readers turning pages. Expert thriller author and writing instructor James Scott Bell shows you how to craft scenes, create characters, and develop storylines that harness conflict and suspense to carry your story from the first word to the last. Learn from examples of successful novels and movies as you transform your work from ho-hum to high-tension. • Pack the beginning, middle, and end of your book with the right amount of conflict. • Tap into the suspenseful power of each character's inner conflict. • Build conflict into your story's point of view. • Balance subplots, flashbacks, and backstory to keep your story moving forward. • Maximize the tension in your characters' dialogue. • Amp up the suspense when you revise. Conflict & Suspense offers proven techniques that help you craft fiction your readers won't be able to put down.

Industrial Electronics N3

Fed up with diets you can't stick to? Forget them. Now's the time to change your mindset and finally take control of your health and happiness. Have you tried diet after diet, only to find yourself demoralized and sinking back into bad habits? Do diets leave you feeling guilty? Ashamed? Unhappy? You're not alone. 40% of us have tried a fad diet in a desperate bid to lose weight, but they simply don't work. Dieting feeds an unhealthy relationship with food. Focused purely on looks, it harms your body and your mind and forgets health altogether. Imagine there was a different way: a way of eating that made you feel good, boosted your health, and improved your body image without the feelings of guilt and failure. Well, guess what? There is! It's called intuitive eating, and your body already knows how to do it. You just need to learn what your body already knows. Intuitive eating gives your mind and body everything they need to be healthy. Weight loss is just an added bonus. There are no rules with this lifestyle: you tailor it to suit you. By listening to your body and practicing intuitive eating, you can reduce stress, improve your body image, increase your overall well-being, and learn to enjoy food again. Sound too good to be

true? Here's what you're going to learn with this book: The 10 core principles of intuitive eating The #1 reason diets don't work How to create your own 10-week journey to better health Why intuitive eating is the right path for you The secret to coping with your emotions without food How to reject numbers Why forbidden foods are dangerous How to improve your relationship with food and learn to love it again Why dieting is bad for your health Why 99% of people associate diets with feelings of guilt and shame How to trust your body and honor your health and so much more. If you thought you were destined for a lifetime of diets, caught in a battle for your dream body, stop. Be kind to yourself. Intuitive eating has been proven effective by registered dietitians and nutritionists: they know dieting doesn't work. Your body knows dieting doesn't work. Now it's time for you to catch up. Hundreds of people changed their life with the power of intuitive eating, and they practice it so naturally, they're barely even conscious of it. Imagine that freedom! That could be you. You won't find this information anywhere else! If you want to love your body and change your relationship with food forever, then click "Buy now" button right now. Dieting is over. Change is coming.

Intuitive Eating

Analytic combinatorics aims to enable precise quantitative predictions of the properties of large combinatorial structures. The theory has emerged over recent decades as essential both for the analysis of algorithms and for the study of scientific models in many disciplines, including probability theory, statistical physics, computational biology, and information theory. With a careful combination of symbolic enumeration methods and complex analysis, drawing heavily on generating functions, results of sweeping generality emerge that can be applied in particular to fundamental structures such as permutations, sequences, strings, walks, paths, trees, graphs and maps. This account is the definitive treatment of the topic. The authors give full coverage of the underlying mathematics and a thorough treatment of both classical and modern applications of the theory. The text is complemented with exercises, examples, appendices and notes to aid understanding. The book can be used for an advanced undergraduate or a graduate course, or for self-study.

Analytic Combinatorics

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

Software-Defined Radio for Engineers

In the history of electronic communication, the last quarter of the nineteenth century holds a special place, for it was during this period that the telephone, phonograph, electric light, wireless, and cinema were all invented. In *When Old Technologies Were New*, Carolyn Marvin explores how two of these new inventions--the telephone and the electric light--were publicly envisioned at the end of the nineteenth century, as seen in specialized engineering journals and popular media. Marvin pays particular attention to the telephone, describing how it disrupted established social relations, unsettling customary ways of dividing the private person and family from the more public setting of the community. On the lighter side, she describes how people spoke louder when calling long distance, and how they worried about catching contagious diseases over the phone. A particularly powerful chapter deals with telephonic precursors of radio broadcasting--the "Telephone Herald" in New York and the "Telefon Hirmondo" of Hungary--and the conflict between the technological development of broadcasting and the attempt to impose a homogenous, ethnocentric variant of Anglo-Saxon culture on the public. While focusing on the way professionals in the electronics field tried to control the new media, Marvin also

illuminates the broader social impact, presenting a wide-ranging, informative, and entertaining account of the early years of electronic media.

When Old Technologies Were New

Seven years have passed since the publication of the previous edition of this book. During that time, sensor technologies have made a remarkable leap forward. The sensitivity of the sensors became higher, the dimensions became smaller, the sensitivity became better, and the prices became lower. What have not changed are the fundamental principles of the sensor design. They are still governed by the laws of Nature. Arguably one of the greatest geniuses who ever lived, Leonardo Da Vinci, had his own peculiar way of praying. He was saying, "Oh Lord, thanks for Thou do not violate your own laws." It is comforting indeed that the laws of Nature do not change as time goes by; it is just our appreciation of them that is being renewed. Thus, this new edition examines the same good old laws of Nature that are employed in the designs of various sensors. This has not changed much since the previous edition. Yet, the sections that describe the practical designs are revised substantially. Recent ideas and developments have been added, and less important and nonessential designs were dropped. Probably the most dramatic recent progress in the sensor technologies relates to wide use of MEMS and MEOMS (micro-electro-mechanical systems and micro-electro-opto-mechanical systems). These are examined in this new edition with greater detail. This book is about devices commonly called sensors. The invention of a microprocessor has brought highly sophisticated instruments into our everyday lives.

Handbook of Modern Sensors

Structure and Interpretation of Computer Programs has had a dramatic impact on computer science curricula over the past decade. This long-awaited revision contains changes throughout the text. There are new implementations of most of the major programming systems in the book, including the interpreters and compilers, and the authors have incorporated many small changes that reflect their experience teaching the course at MIT since the first edition was published. A new theme has been introduced that emphasizes the central role played by different approaches to dealing with time in computational models: objects with state, concurrent programming, functional programming and lazy evaluation, and nondeterministic programming. There are new example sections on higher-order procedures in graphics and on applications of stream processing in numerical programming, and many new exercises. In addition, all the programs have been reworked to run in any Scheme implementation that adheres to the IEEE standard.

Structure and Interpretation of Computer Programs, second edition

This book offers a critical introduction to the core technologies underlying the Internet from a humanistic perspective. It provides a cultural critique of computing technologies, by exploring the history of computing and examining issues related to writing, representing, archiving and searching. The book raises awareness of, and calls for, the digital humanities to address the challenges posed by the linguistic and cultural divides in computing, the clash between communication and control, and the biases inherent in networked technologies. A common problem with publications in the Digital Humanities is the dominance of the Anglo-American perspective. While seeking to take a broader view, the book attempts to show how cultural bias can become an obstacle to innovation both in the methodology and practice of the Digital Humanities. Its central point is that no technological instrument is culturally unbiased, and that all too often the geography that underlies technology coincides with the social and economic interests of its producers. The alternative proposed in the book is one of a world in which variation, contamination and decentralization are essential instruments for the production and transmission of digital knowledge. It is thus necessary not only to have spaces where DH scholars can interact (such as international conferences, THATCamps, forums and mailing lists), but also a genuine sharing of technological know-how and experience. "This is a truly exceptional work on the subject of the digital....Students and scholars new to the field of digital humanities will find in this book a gentle introduction to the field, which I cannot but think would be good and perhaps even inspirational for them....Its history of the development of machines and programs and communities bent on using computers to advance science and research merely sets the stage for an insightful analysis of the role of the digital in the way both scholars and everyday people communicate and conceive of themselves and "others" in written forms - from treatises to credit card transactions." Peter Shillingsburg
The Digital Humanist is not simply a translation of the Italian book *L'umanista digitale* (il Mulino 2010),

but a new version tailored to an international audience through the improvement and expansion of the sections on social, cultural and ethical problems of the most widely used methodologies, resources and applications. TABLE OF CONTENTS // Preface: Digital Humanities at a Political Turn? by Geoffrey Rockwell / PART I: The Socio-Historical Roots - Chap. 1: Technology and the Humanities: A History of Interaction - Chap. 2: Internet, or The Humanistic Machine / PART II: Theoretical and Practical Dimensions - Chap. 3: Writing and Content Production - Chap. 4: Representing and Archiving - Chap. 5: Searching and Organizing / Conclusions: DH in a Global Perspective

U.S. Government Research & Development Reports

Window functions—otherwise known as weighting functions, tapering functions, or apodization functions—are mathematical functions that are zero-valued outside the chosen interval. They are well established as a vital part of digital signal processing. Window Functions and their Applications in Signal Processing presents an exhaustive and detailed account of window functions and their applications in signal processing, focusing on the areas of digital spectral analysis, design of FIR filters, pulse compression radar, and speech signal processing. Comprehensively reviewing previous research and recent developments, this book: Provides suggestions on how to choose a window function for particular applications Discusses Fourier analysis techniques and pitfalls in the computation of the DFT Introduces window functions in the continuous-time and discrete-time domains Considers two implementation strategies of window functions in the time- and frequency domain Explores well-known applications of window functions in the fields of radar, sonar, biomedical signal analysis, audio processing, and synthetic aperture radar

The Digital Humanist

The Manual of Engineering Drawing has long been recognised as the student and practising engineer's guide to producing engineering drawings that comply with ISO and British Standards. The information in this book is equally applicable to any CAD application or manual drawing. The second edition is fully in line with the requirements of the new British Standard BS8888: 2002, and will help engineers, lecturers and students with the transition to the new standards. BS8888 is fully based on the relevant ISO standards, so this book is also ideal for an international readership. The comprehensive scope of this book encompasses topics including orthographic, isometric and oblique projections, electric and hydraulic diagrams, welding and adhesive symbols, and guidance on tolerancing. Written by a member of the ISO committee and a former college lecturer, the Manual of Engineering Drawing combines up-to-the-minute technical accuracy with clear, readable explanations and numerous diagrams. This approach makes this an ideal student text for vocational courses in engineering drawing and undergraduates studying engineering design / product design. Colin Simmons is a member of the BSI and ISO Draughting Committees and an Engineering Standards Consultant. He was formerly Standards Engineer at Lucas CAV. * Fully in line with the latest ISO Standards * A textbook and reference guide for students and engineers involved in design engineering and product design * Written by a former lecturer and a current member of the relevant standards committees

Window Functions and Their Applications in Signal Processing

An approach to software design that introduces a fully automated analysis giving designers immediate feedback, now featuring the latest version of the Alloy language. In Software Abstractions Daniel Jackson introduces an approach to software design that draws on traditional formal methods but exploits automated tools to find flaws as early as possible. This approach—which Jackson calls “lightweight formal methods” or “agile modeling”—takes from formal specification the idea of a precise and expressive notation based on a tiny core of simple and robust concepts but replaces conventional analysis based on theorem proving with a fully automated analysis that gives designers immediate feedback. Jackson has developed Alloy, a language that captures the essence of software abstractions simply and succinctly, using a minimal toolkit of mathematical notions. This revised edition updates the text, examples, and appendixes to be fully compatible with Alloy 4.

Serials Holdings

Composed of three sections, this book presents the most popular training algorithm for neural networks: backpropagation. The first section presents the theory and principles behind backpropagation as seen from different perspectives such as statistics, machine learning, and dynamical systems. The second presents a number of network architectures that may be designed to match the general concepts of

Parallel Distributed Processing with backpropagation learning. Finally, the third section shows how these principles can be applied to a number of different fields related to the cognitive sciences, including control, speech recognition, robotics, image processing, and cognitive psychology. The volume is designed to provide both a solid theoretical foundation and a set of examples that show the versatility of the concepts. Useful to experts in the field, it should also be most helpful to students seeking to understand the basic principles of connectionist learning and to engineers wanting to add neural networks in general -- and backpropagation in particular -- to their set of problem-solving methods.

Bibliography of Scientific and Industrial Reports

Master the fundamentals of discrete mathematics with DISCRETE MATHEMATICS FOR COMPUTER SCIENCE with Student Solutions Manual CD-ROM! An increasing number of computer scientists from diverse areas are using discrete mathematical structures to explain concepts and problems and this mathematics text shows you how to express precise ideas in clear mathematical language. Through a wealth of exercises and examples, you will learn how mastering discrete mathematics will help you develop important reasoning skills that will continue to be useful throughout your career.

Manual of Engineering Drawing

This fifth edition of International Law: A South African Perspective is now titled Dugard's International Law: A South African Perspective, in recognition of the fact that this work is a continuation of the earlier editions written by John Dugard. The substance of the work has undergone major changes to take account of new developments both on the international legal scene and in South Africa. Dugard's International Law: A South African Perspective presents a South African perspective of international law. The basic principles of international law are described and examined with reference to the principal sources of international law. This examination, however, takes place within the context of South African law. South African state practice, judicial decisions and legislation on international law receive equal treatment with international law as it is practised and taught abroad. The present work is designed to assist judicial officers and practitioners, educate students, and guide diplomats in the intricacies of international law both at home in South Africa and abroad.

Software Abstractions, revised edition

Martin Gardner's Mathematical Games columns in Scientific American inspired and entertained several generations of mathematicians and scientists. Gardner in his crystal-clear prose illuminated corners of mathematics, especially recreational mathematics, that most people had no idea existed. His playful spirit and inquisitive nature invite the reader into an exploration of beautiful mathematical ideas along with him. These columns were both a revelation and a gift when he wrote them; no one--before Gardner--had written about mathematics like this. They continue to be a marvel. This volume, originally published in 1959, contains the first sixteen columns published in the magazine from 1956-1958. They were reviewed and briefly updated by Gardner for this 1988 edition.

Backpropagation

A comprehensive and self-contained introduction to Gaussian processes, which provide a principled, practical, probabilistic approach to learning in kernel machines. Gaussian processes (GPs) provide a principled, practical, probabilistic approach to learning in kernel machines. GPs have received increased attention in the machine-learning community over the past decade, and this book provides a long-needed systematic and unified treatment of theoretical and practical aspects of GPs in machine learning. The treatment is comprehensive and self-contained, targeted at researchers and students in machine learning and applied statistics. The book deals with the supervised-learning problem for both regression and classification, and includes detailed algorithms. A wide variety of covariance (kernel) functions are presented and their properties discussed. Model selection is discussed both from a Bayesian and a classical perspective. Many connections to other well-known techniques from machine learning and statistics are discussed, including support-vector machines, neural networks, splines, regularization networks, relevance vector machines and others. Theoretical issues including learning curves and the PAC-Bayesian framework are treated, and several approximation methods for learning with large datasets are discussed. The book contains illustrative examples and exercises, and code and datasets are available on the Web. Appendixes provide mathematical background and a discussion of Gaussian Markov processes.

Discrete Mathematics for Computer Science

Aeronautical engineers concerned with the analysis of aircraft dynamics and the synthesis of aircraft flight control systems will find an indispensable tool in this analytical treatment of the subject. Approaching these two fields with the conviction that an understanding of either one can illuminate the other, the authors have summarized selected, interconnected techniques that facilitate a high level of insight into the essence of complex systems problems. These techniques are suitable for establishing nominal system designs, for forecasting off-nominal problems, and for diagnosing the root causes of problems that almost inevitably occur in the design process. A complete and self-contained work, the text discusses the early history of aircraft dynamics and control, mathematical models of linear system elements, feedback system analysis, vehicle equations of motion, longitudinal and lateral dynamics, and elementary longitudinal and lateral feedback control. The discussion concludes with such topics as the system design process, inputs and system performance assessment, and multi-loop flight control systems. Originally published in 1974. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Dugard's International Law

Publisher description

Government Reports Announcements

This book provides a comprehensive and accessible introduction to knowledge graphs, which have recently garnered notable attention from both industry and academia. Knowledge graphs are founded on the principle of applying a graph-based abstraction to data, and are now broadly deployed in scenarios that require integrating and extracting value from multiple, diverse sources of data at large scale. The book defines knowledge graphs and provides a high-level overview of how they are used. It presents and contrasts popular graph models that are commonly used to represent data as graphs, and the languages by which they can be queried before describing how the resulting data graph can be enhanced with notions of schema, identity, and context. The book discusses how ontologies and rules can be used to encode knowledge as well as how inductive techniques—based on statistics, graph analytics, machine learning, etc.—can be used to encode and extract knowledge. It covers techniques for the creation, enrichment, assessment, and refinement of knowledge graphs and surveys recent open and enterprise knowledge graphs and the industries or applications within which they have been most widely adopted. The book closes by discussing the current limitations and future directions along which knowledge graphs are likely to evolve. This book is aimed at students, researchers, and practitioners who wish to learn more about knowledge graphs and how they facilitate extracting value from diverse data at large scale. To make the book accessible for newcomers, running examples and graphical notation are used throughout. Formal definitions and extensive references are also provided for those who opt to delve more deeply into specific topics.

Hexaflexagons and Other Mathematical Diversions

The scholarship of management teaching and learning has established itself as a field in its own right and this benchmark handbook is the first to provide an account of the discipline. Original chapters from leading international academics identify the key issues and map out where the discipline is going. Each chapter provides a comprehensive and critical overview of the given topic area, highlights current debates and reviews the emerging research agenda. Chapters embrace the study of organizations as a whole, the concepts of individual and collective learning, the delivery of formal management education and the facilitation of management development. Through consideration of these themes the Handbook analyzes, promotes and critiques the contribution of management learning, education and development to management understanding. It will be an invaluable point of reference for all students and researchers interested in broadening their understanding of this exciting and dynamic new field.

Gaussian Processes for Machine Learning

Principles of Computer System Design is the first textbook to take a principles-based approach to the computer system design. It identifies, examines, and illustrates fundamental concepts in computer system design that are common across operating systems, networks, database systems, distributed systems, programming languages, software engineering, security, fault tolerance, and architecture. Through carefully analyzed case studies from each of these disciplines, it demonstrates how to apply these concepts to tackle practical system design problems. To support the focus on design, the text identifies and explains abstractions that have proven successful in practice such as remote procedure call, client/service organization, file systems, data integrity, consistency, and authenticated messages. Most computer systems are built using a handful of such abstractions. The text describes how these abstractions are implemented, demonstrates how they are used in different systems, and prepares the reader to apply them in future designs. The book is recommended for junior and senior undergraduate students in Operating Systems, Distributed Systems, Distributed Operating Systems and/or Computer Systems Design courses; and professional computer systems designers. Features: Concepts of computer system design guided by fundamental principles. Cross-cutting approach that identifies abstractions common to networking, operating systems, transaction systems, distributed systems, architecture, and software engineering. Case studies that make the abstractions real: naming (DNS and the URL); file systems (the UNIX file system); clients and services (NFS); virtualization (virtual machines); scheduling (disk arms); security (TLS). Numerous pseudocode fragments that provide concrete examples of abstract concepts. Extensive support. The authors and MIT Open-CourseWare provide on-line, free of charge, open educational resources, including additional chapters, course syllabi, board layouts and slides, lecture videos, and an archive of lecture schedules, class assignments, and design projects.

Aircraft Dynamics and Automatic Control

The purpose of this manual is to provide recovery system engineers in government and industry with tools to evaluate, analyze, select, and design parachute recovery systems. These systems range from simple, one-parachute assemblies to multiple-parachute systems, and may include equipment for impact attenuation, flotation, location, retrieval, and disposition. All system aspects are discussed, including the need for parachute recovery, the selection of the most suitable recovery system concept, concept analysis, parachute performance, force and stress analysis, material selection, parachute assembly and component design, and manufacturing. Experienced recovery system engineers will find this publication useful as a technical reference book; recent college graduates will find it useful as a textbook for learning about parachutes and parachute recovery systems; and technicians with extensive practical experience will find it useful as an engineering textbook that includes a chapter on parachute-related aerodynamics. In this manual, emphasis is placed on aiding government employees in evaluating and supervising the design and application of parachute systems. The parachute recovery system uses aerodynamic drag to decelerate people and equipment moving in air from a higher velocity to a lower velocity and to a safe landing. This lower velocity is known as rate of descent, landing velocity, or impact velocity, and is determined by the following requirements: (1) landing personnel uninjured and ready for action, (2) landing equipment and air vehicles undamaged and ready for use or refurbishment, and (3) impacting ordnance at a preselected angle and velocity.

Introduction to Coding Theory

Since the mid-1990s, the emergence of a hydrogen economy and the speed with which it will arrive have been vigorously debated. As a disruptive technology, dominant designs for the production, storage and distribution of hydrogen have not yet been established. Neither have performance characteristics been achieved to compete with the existing combustion engine, though the efficiency and durability of hydrogen fuel cells are improving. This publication highlights the uncertainties involved in making choices about hydrogen and fuel cells in planning the development policies on national energy, environment and transport sector.--Publisher's description.

Knowledge Graphs

Digital technology has made culture more accessible than ever before. Texts, audio, pictures and video can easily be produced, disseminated, used and remixed using devices that are increasingly user-friendly and affordable. However, along with this technological democratization comes a paradoxical flipside: the norms regulating culture's use - copyright and related rights - have become increasingly restrictive. This book brings together essays by academics, librarians, entrepreneurs, activists and

policy makers, who were all part of the EU-funded Communia project. Together the authors argue that the Public Domain - that is, the informational works owned by all of us, be that literature, music, the output of scientific research, educational material or public sector information - is fundamental to a healthy society. The essays range from more theoretical papers on the history of copyright and the Public Domain, to practical examples and case studies of recent projects that have engaged with the principles of Open Access and Creative Commons licensing. The book is essential reading for anyone interested in the current debate about copyright and the Internet. It opens up discussion and offers practical solutions to the difficult question of the regulation of culture at the digital age.

The SAGE Handbook of Management Learning, Education and Development

Although the Fields Medal does not have the same public recognition as the Nobel Prizes, they share a similar intellectual standing. It is restricted to one field - that of mathematics - and an age limit of 40 has become an accepted tradition. Mathematics has in the main been interpreted as pure mathematics, and this is not so unreasonable since major contributions in some applied areas can be (and have been) recognized with Nobel Prizes. The restriction to 40 years is of marginal significance, since most mathematicians have made their mark long before this age. A list of Fields Medallists and their contributions provides a bird's eye view of mathematics over the past 60 years. It highlights the areas in which, at various times, greatest progress has been made. This volume does not pretend to be comprehensive, nor is it a historical document. On the other hand, it presents contributions from 22 Fields Medallists and so provides a highly interesting and varied picture. The contributions themselves represent the choice of the individual Medallists. In some cases the articles relate directly to the work for which the Fields Medals were awarded. In other cases new articles have been produced which relate to more current interests of the Medallists. This indicates that while Fields Medallists must be under 40 at the time of the award, their mathematical development goes well past this age. In fact the age limit of 40 was chosen so that young mathematicians would be encouraged in their future work. The Fields Medallists' Lectures is now available on CD-ROM. Sections can be accessed at the touch of a button, and similar topics grouped together using advanced keyword searches.

Principles of Computer System Design

Praise for the First Edition "... an excellent textbook ... well organized and neatly written." —Mathematical Reviews "... amazingly interesting ..." —Technometrics Thoroughly updated to showcase the interrelationships between probability, statistics, and stochastic processes, *Probability, Statistics, and Stochastic Processes, Second Edition* prepares readers to collect, analyze, and characterize data in their chosen fields. Beginning with three chapters that develop probability theory and introduce the axioms of probability, random variables, and joint distributions, the book goes on to present limit theorems and simulation. The authors combine a rigorous, calculus-based development of theory with an intuitive approach that appeals to readers' sense of reason and logic. Including more than 400 examples that help illustrate concepts and theory, the Second Edition features new material on statistical inference and a wealth of newly added topics, including: Consistency of point estimators Large sample theory Bootstrap simulation Multiple hypothesis testing Fisher's exact test and Kolmogorov-Smirnov test Martingales, renewal processes, and Brownian motion One-way analysis of variance and the general linear model Extensively class-tested to ensure an accessible presentation, *Probability, Statistics, and Stochastic Processes, Second Edition* is an excellent book for courses on probability and statistics at the upper-undergraduate level. The book is also an ideal resource for scientists and engineers in the fields of statistics, mathematics, industrial management, and engineering.

Parachute Recovery Systems

This edited book brings together an international cast of contributors to examine how academic literacy is learned and mastered in different tertiary education settings around the world. Bringing to the fore the value of qualitative enquiry through ethnographic methods, the authors illustrate in-depth descriptions of genre knowledge and academic literacy development in first and second language writing. All of the data presented in the chapters are original, as well as innovative in the field in terms of content and scope, and thought-provoking regarding theoretical, methodological and educational approaches. The contributions are also representative of both novice and advanced academic writing experiences, providing further insights into different stages of academic literacy development throughout the career-span of a researcher. Set against the backdrop of internationalisation trends in Higher Education and the pressure on multilingual academics to publish their research outcomes in English,

this volume will be of use to academics and practitioners interested in the fields of Languages for Academic Purposes, Applied Linguistics, Literacy Skills, Genre Analysis and Acquisition and Language Education.

Government Reports Announcements & Index

New for the third edition, chapters on: Complete Exercise of the SE Process, System Science and Analytics and The Value of Systems Engineering The book takes a model-based approach to key systems engineering design activities and introduces methods and models used in the real world. This book is divided into three major parts: (1) Introduction, Overview and Basic Knowledge, (2) Design and Integration Topics, (3) Supplemental Topics. The first part provides an introduction to the issues associated with the engineering of a system. The second part covers the critical material required to understand the major elements needed in the engineering design of any system: requirements, architectures (functional, physical, and allocated), interfaces, and qualification. The final part reviews methods for data, process, and behavior modeling, decision analysis, system science and analytics, and the value of systems engineering. Chapter 1 has been rewritten to integrate the new chapters and updates were made throughout the original chapters. Provides an overview of modeling, modeling methods associated with SysML, and IDEF0 Includes a new Chapter 12 that provides a comprehensive review of the topics discussed in Chapters 6 through 11 via a simple system – an automated soda machine Features a new Chapter 15 that reviews General System Theory, systems science, natural systems, cybernetics, systems thinking, quantitative characterization of systems, system dynamics, constraint theory, and Fermi problems and guesstimation Includes a new Chapter 16 on the value of systems engineering with five primary value propositions: systems as a goal-seeking system, systems engineering as a communications interface, systems engineering to avert showstoppers, systems engineering to find and fix errors, and systems engineering as risk mitigation The Engineering Design of Systems: Models and Methods, Third Edition is designed to be an introductory reference for professionals as well as a textbook for senior undergraduate and graduate students in systems engineering.

Making Choices about Hydrogen

Chapter 1 ELECTRICAL REVIEW 1.1 Fundamentals Of Electricity 1.2 Alternating Current Theory 1.3 Three-Phase Systems And Transformers 1.4 Generators 1.5 Motors 1.6 Motor Controllers 1.7 Electrical Safety 1.8 Storage Batteries 1.9 Electrical Measuring Instruments Chapter 2 ELECTRONICS REVIEW 2.1 Solid State Devices 2.2 Magnetic Amplifiers 2.3 Thermocouples 2.4 Resistance Thermometry 2.5 Nuclear Radiation Detectors 2.6 Nuclear Instrumentation Circuits 2.7 Differential Transformers 2.8 D-C Power Supplies 2.9 Digital Integrated Circuit Devices 2.10 Microprocessor-Based Computer Systems Chapter 3 REACTOR THEORY REVIEW 3.1 Basics 3.2 Stability Of The Nucleus 3.3 Reactions 3.4 Fission 3.5 Nuclear Reaction Cross Sections 3.6 Neutron Slowing Down 3.7 Thermal Equilibrium 3.8 Neutron Density, Flux, Reaction Rates, And Power 3.9 Slowing Down, Diffusion, And Migration Lengths 3.10 Neutron Life Cycle And The Six-Factor Formula 3.11 Buckling, Leakage, And Flux Shapes 3.12 Multiplication Factor 3.13 Temperature Coefficient...

The Digital Public Domain

The first comprehensive reference on mechatronics, The Mechatronics Handbook was quickly embraced as the gold standard in the field. From washing machines, to coffeemakers, to cell phones, to the ubiquitous PC in almost every household, what, these days, doesn't take advantage of mechatronics in its design and function? In the scant five years since the initial publication of the handbook, the latest generation of smart products has made this even more obvious. Too much material to cover in a single volume Originally a single-volume reference, the handbook has grown along with the field. The need for easy access to new material on rapid changes in technology, especially in computers and software, has made the single volume format unwieldy. The second edition is offered as two easily digestible books, making the material not only more accessible, but also more focused. Completely revised and updated, Robert Bishop's seminal work is still the most exhaustive, state-of-the-art treatment of the field available.

Radio Meteorology

A new edition of a classic textbook on complex analysis with an emphasis on translating visual intuition to rigorous proof.

Fields Medallists' Lectures

Probability, Statistics, and Stochastic Processes