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[Computer Networks](#) CRC Press

A Practical Handbook for Drilling Fluids Processing delivers a much-needed reference for drilling fluid and mud engineers to safely understand how the drilling fluid processing operation affects the drilling process. Agitation and blending of new additions to the surface system are explained with each piece of drilled solids removal equipment discussed in detail. Several calculations of drilled solids, such as effect of retort volumes, are included, along with multiple field methods, such as determining the drilled solids density. Tank arrangements are covered as well as operating guidelines for the surface system. Rounding out with a solutions chapter with additional instruction and an appendix with equation derivations, this book gives today's drilling fluid engineers a tool to understand the technology available and step-by-step guidelines of how-to safety evaluate surface systems in the oil and gas fields. Presents practical guidance from real example problems that are encountered on drilling rigs Helps readers understand multiple field methods and drilled solids calculations with the help of practice questions Gives readers what they need to master each piece of drilling fluid processing equipment, including mud cleaners and safe mud tank arrangements

[Probability and Random Processes for Electrical and Computer Engineers](#) Penguin

Leveraging the organization and focus on exam preparation found in the comprehensive text, this Exam Review will help any student to successfully complete the ARRT General Radiography and Computed Tomography exams. The book includes a bulleted format review of content, Registry-style questions with answers and rationales, and a mock exam following the ARRT format. The companion website offers an online testing simulation engine. [Selected Papers from the 5th International Electronic Conference on Sensors and Applications](#) Pearson Education India

Providing the underlying principles of digital communication and the design techniques of real-world systems, this textbook prepares senior undergraduate and graduate students for the engineering practices required in industry. Covering the core concepts, including modulation, demodulation, equalization, and channel coding, it provides step-by-step mathematical derivations to aid understanding of background material. In addition to describing the basic theory, the principles of system and subsystem design are introduced, enabling students to visualize the intricate connections between subsystems and understand how each aspect of the design supports the overall goal of achieving reliable communications. Throughout the book, theories are linked to practical applications with over 250 real-world examples, whilst 370 varied homework problems in three levels of difficulty enhance and extend the text material. With this textbook, students can understand how digital communication systems operate in the real world, learn how to design subsystems, and evaluate end-to-end performance with ease and confidence.

[Theory and Design of Digital Communication Systems](#) HarperCollins

This Special Issue comprises selected papers from the proceedings of the 5th International Electronic Conference on Sensors and Applications, held on 15–30 November 2018, on sciforum.net, an online platform for hosting scholarly e-conferences and discussion groups. In this 5th edition of the electronic conference, contributors were invited to provide papers and presentations from the field of sensors and applications at large, resulting in a wide variety of excellent submissions and topic areas. Papers which attracted the most interest on the web or that provided a particularly innovative contribution were selected for publication in this collection. These peer-reviewed papers are published with the aim of rapid and wide dissemination of research results, developments, and applications. We hope this conference series will grow rapidly in the future and become recognized as a new way and venue by which to (electronically) present new developments related to the field of sensors and their applications.

[Probability and Random Processes with Applications to Signal Processing](#)

Student Solutions Manual for Probability, Statistics, and Random Processes for Electrical Engineering

This manual contains all the problems to Leonard Kleinrock's Queueing Systems, Volume One, and their solutions. The manual offers a concise introduction so that it can be used independently from the text. Contents include: * A Queueing Theory Primer * Random Processes * Birth-Death Queueing Systems * Markovian Queues * The Queue M/G/1 * The Queue G/M/m * The Queue G/G/1

[The Philosophy Book](#) "O'Reilly Media, Inc."

Miller and Childers have focused on creating a clear presentation of foundational concepts with specific applications to signal processing and communications, clearly the two areas of most interest to students and instructors in this course. It is aimed at graduate students as well as practicing engineers, and includes unique chapters on narrowband random processes and simulation techniques. The appendices provide a refresher in such areas as linear algebra, set theory, random variables, and more. Probability and Random Processes also includes applications in digital communications, information theory, coding theory, image processing, speech analysis, synthesis and recognition, and other fields. * Exceptional exposition and numerous worked out problems make the book extremely readable and accessible * The authors connect the applications discussed in class to the textbook * The new edition contains more real world signal processing and communications applications * Includes an entire chapter devoted to simulation techniques

[How Tobacco Smoke Causes Disease](#) Pearson Higher Ed

Designed as a text for the undergraduate students of all branches of engineering, this compendium gives an opportunity to learn and apply the popular drafting software AutoCAD in designing projects. The textbook is organized in three comprehensive parts. Part I (AutoCAD) deals with the basic commands of AutoCAD, a popular drafting software used by engineers and architects. Part II (Projection Techniques) contains various projection techniques

used in engineering for technical drawings. These techniques have been explained with a number of line diagrams to make them simple to the students. Part III (Descriptive Geometry), mainly deals with 3-D objects that require imagination. The accompanying CD contains the animations using creative multimedia and PowerPoint presentations for all chapters. In a nutshell, this textbook will help students maintain their cutting edge in the professional job market. KEY FEATURES : Explains fundamentals of imagination skill in generic and basic forms to crystallize concepts. Includes chapters on aspects of technical drawing and AutoCAD as a tool. Treats problems in the third angle as well as first angle methods of projection in line with the revised code of Indian Standard Code of Practice for General Drawing.

[Statistics for Management](#) Cambridge University Press

Warzones are sometimes described as lawless, but this is rarely the case. Armed insurgents often replace the state as the provider of law and justice in areas under their authority. Based on extensive fieldwork, Rebel Courts offers a compelling and unique insight into the judicial governance of armed groups, a phenomenon never studied comprehensively until now. Using a series of detailed case studies of non-state armed groups in a diverse range of conflict situations, including the FARC (Colombia), Islamic State (Syria and Iraq), Taliban (Afghanistan), Tamil Tigers (Sri Lanka), PKK (Turkey), PYD (Syria), and KRG (Iraq), Rebel Courts argues that it is possible for non-state armed groups to legally establish and operate a system of courts to administer justice. Rules of public international law that regulate the conduct of war can be interpreted as authorising the establishment of rebel courts by armed groups. When operating in a manner consistent with due process, rebel courts demand a certain degree of recognition by international states, institutions, and even other non-state armed groups. With legal analysis enriched by insights from other disciplines, Rebel Courts is a must read for all scholars and professionals interested in law, justice, and the effectiveness of global legal standards in situations of armed conflict.

[Probability, Statistics and Random Processes](#) Cl-Engineering

Intuitive Probability and Random Processes using MATLAB® is an introduction to probability and random processes that merges theory with practice. Based on the author's belief that only "hands-on" experience with the material can promote intuitive understanding, the approach is to motivate the need for theory using MATLAB examples, followed by theory and analysis, and finally descriptions of "real-world" examples to acquaint the reader with a wide variety of applications. The latter is intended to answer the usual question "Why do we have to study this?" Other salient features are: *heavy reliance on computer simulation for illustration and student exercises *the incorporation of MATLAB programs and code segments *discussion of discrete random variables followed by continuous random variables to minimize confusion *summary sections at the beginning of each chapter *in-line equation explanations *warnings on common errors and pitfalls *over 750 problems designed to help the reader assimilate and extend the concepts Intuitive Probability and Random Processes using MATLAB® is intended for undergraduate and first-year graduate students in engineering. The practicing engineer as well as others having the appropriate mathematical background will also benefit from this book. About the Author Steven M. Kay is a Professor of Electrical Engineering at the University of Rhode Island and a leading expert in signal processing. He has received the Education Award "for outstanding contributions in education and in writing scholarly books and texts..." from the IEEE Signal Processing society and has been listed as among the 250 most cited researchers in the world in engineering.

[Applied Statistics for Engineers and Physical Scientists](#) Academic Press

The instant New York Times bestseller, now available in paperback and featuring a new afterword from the author—the insider's guide to the Facebook/Cambridge Analytica scandal, the inner workings of the tech world, and who really runs Silicon Valley "Incisive... The most fun business book I have read this year... Clearly there will be people who hate this book – which is probably one of the things that makes it such a great read." – Andrew Ross Sorkin, New York Times Imagine a chimpanzee rampaging through a datacenter powering everything from Google to Facebook. Infrastructure engineers use a software version of this "chaos monkey" to test online services' robustness—their ability to survive random failure and correct mistakes before they actually occur. Tech entrepreneurs are society's chaos monkeys. One of Silicon Valley's most audacious chaos monkeys is Antonio García Martínez. After stints on Wall Street and as CEO of his own startup, García Martínez joined Facebook's nascent advertising team. Forced out in the wake of an internal product war over the future of the company's monetization strategy, García Martínez eventually landed at rival Twitter. In Chaos Monkeys, this gleeful contrarian unravels the chaotic evolution of social media and online marketing and reveals how it is invading our lives and shaping our future.

[Rebel Courts](#) PHI Learning Pvt. Ltd.

Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. Transforming the Workforce for Children Birth Through Age 8 explores the science of child development, particularly looking at implications for

the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. Transforming the Workforce for Children Birth Through Age 8 offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

Probability, Statistics, and Random Processes for Engineers Prentice Hall While helping students to develop their problem-solving skills, the author motivates students with practical applications from various areas of ECE that demonstrate the relevance of probability theory to engineering practice.

Probability and Random Processes for Electrical and Computer Engineers, Second Edition MDPI

Digital Communications is a classic book in the area that is designed to be used as a senior or graduate level text. The text is flexible and can easily be used in a one semester course or there is enough depth to cover two semesters. Its comprehensive nature makes it a great book for students to keep for reference in their professional careers. This all-inclusive guide delivers an outstanding introduction to the analysis and design of digital communication systems. Includes expert coverage of new topics: Turbo-codes, Turbo-equalization, Antenna Arrays, Digital Cellular Systems, and Iterative Detection. Convenient, sequential organization begins with a look at the history and classification of channel models and builds from there.

Queueing Systems Prentice Hall

Written for advanced electrical and computer engineering students, this textbook explains fundamental probability and its applications and extensions. Among the application topics are noise or sinusoids with random phase, the calculation of means and standard deviations, and the application of probability to the reliability of devices and software. Annotation (c)2003 Book News, Inc., Portland, OR (booknews.com)

Student Solutions Manual for Probability, Statistics, and Random Processes for Electrical Engineering Prentice Hall

For courses in Probability and Random Processes. An accessible, yet mathematically solid, treatment of probability and random processes.

Programming Collective Intelligence Cambridge University Press

What existed before the Universe was created? Where does self-worth come from? Do the ends always justify the means? The Philosophy Book answers the most profound questions we all have. It is your visual guide to the fundamental nature of existence, society, and how we think. Discover what it means to be free, whether science can predict the future, or how language shapes our thoughts. Learn about the world's greatest philosophers, from Plato and Confucius to modern thinkers such as Chomsky and Derrida and follow charts and timelines that graphically show the progression of ideas and logic. Written in plain English, with concise explanations of branches of philosophy such as metaphysics and ethics, it untangles complicated theories and makes sense of abstract concepts. It is an ideal reference whether you're a student or a general reader, with simple explanations of big ideas, including the four noble truths, the soul, class struggle, moral purpose, and good and evil. If you're curious about the deeper questions in life, The Philosophy Book is both an invaluable reference and illuminating read.

Probability, Statistics, and Random Processes For Electrical Engineering Springer Science & Business Media

Together with the fundamentals of probability, random processes and statistical analysis, this insightful book also presents a broad range of advanced topics and applications. There is extensive coverage of Bayesian vs. frequentist statistics, time series and spectral representation, inequalities, bound and approximation, maximum-likelihood estimation and the expectation-maximization (EM) algorithm, geometric Brownian motion and Itô process. Applications such as hidden Markov models (HMM), the Viterbi, BCJR, and Baum-Welch algorithms, algorithms for machine learning, Wiener and Kalman filters, and queueing and loss networks are treated in detail. The book will be useful to students and researchers in such areas as communications, signal processing, networks, machine learning, bioinformatics, econometrics and mathematical finance. With a solutions manual, lecture slides, supplementary materials and MATLAB programs all available online, it is ideal for classroom teaching as well as a valuable reference for professionals.

Probability and Random Processes PHI Learning Pvt. Ltd.

Want to tap the power behind search rankings, product recommendations, social bookmarking, and online matchmaking? This fascinating book demonstrates how you can build Web 2.0 applications to mine the enormous amount of data created by people on the Internet. With the sophisticated algorithms in this book, you can write smart programs to access interesting datasets from other web sites, collect data from users of your own applications, and analyze and understand the data once you've found it. Programming Collective Intelligence takes you into the world of machine learning and statistics, and explains how to draw conclusions about user

experience, marketing, personal tastes, and human behavior in general -- all from information that you and others collect every day. Each algorithm is described clearly and concisely with code that can immediately be used on your web site, blog, Wiki, or specialized application. This book explains: Collaborative filtering techniques that enable online retailers to recommend products or media Methods of clustering to detect groups of similar items in a large dataset Search engine features -- crawlers, indexers, query engines, and the PageRank algorithm Optimization algorithms that search millions of possible solutions to a problem and choose the best one Bayesian filtering, used in spam filters for classifying documents based on word types and other features Using decision trees not only to make predictions, but to model the way decisions are made Predicting numerical values rather than classifications to build price models Support vector machines to match people in online dating sites Non-negative matrix factorization to find the independent features in a dataset Evolving intelligence for problem solving -- how a computer develops its skill by improving its own code the more it plays a game Each chapter includes exercises for extending the algorithms to make them more powerful. Go beyond simple database-backed applications and put the wealth of Internet data to work for you. "Bravo! I cannot think of a better way for a developer to first learn these algorithms and methods, nor can I think of a better way for me (an old AI dog) to reinvigorate my knowledge of the details." -- Dan Russell, Google "Toby's book does a great job of breaking down the complex subject matter of machine-learning algorithms into practical, easy-to-understand examples that can be directly applied to analysis of social interaction across the Web today. If I had this book two years ago, it would have saved precious time going down some fruitless paths." -- Tim Wolters, CTO, Collective Intellect

Solutions Manual Wiley-Interscience

The 2nd Edition of Analog Integrated Circuit Design focuses on more coverage about several types of circuits that have increased in importance in the past decade. Furthermore, the text is enhanced with material on CMOS IC device modeling, updated processing layout and expanded coverage to reflect technical innovations. CMOS devices and circuits have more influence in this edition as well as a reduced amount of text on BiCMOS and bipolar information. New chapters include topics on frequency response of analog ICs and basic theory of feedback amplifiers.

Field and Wave Electromagnetics Prentice Hall

The theory of probability is a powerful tool that helps electrical and computer engineers to explain, model, analyze, and design the technology they develop. The text begins at the advanced undergraduate level, assuming only a modest knowledge of probability, and progresses through more complex topics mastered at graduate level. The first five chapters cover the basics of probability and both discrete and continuous random variables. The later chapters have a more specialized coverage, including random vectors, Gaussian random vectors, random processes, Markov Chains, and convergence. Describing tools and results that are used extensively in the field, this is more than a textbook; it is also a reference for researchers working in communications, signal processing, and computer network traffic analysis. With over 300 worked examples, some 800 homework problems, and sections for exam preparation, this is an essential companion for advanced undergraduate and graduate students. Further resources for this title, including solutions (for Instructors only), are available online at www.cambridge.org/9780521864701.