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A discussion of the basic reliability concepts and models, Reliability Models for Engineers and Scientists demystifies modern mathematical reliability models. Requiring very little mathematical background on the reader's part, this concise book introduces the

models by focusing on their physical meaning and the supporting data; it then goes on to provide a wide scope of possible applications. The book also introduces a new concept of the Gini-type index, which when applied to aging/rejuvenating components (nonrepairable systems) can measure how different a given aging/rejuvenation distribution is compared to the exponential distribution. A similar index is then applied to aging/rejuvenating repairable systems, creating a bridge between the concepts. The chapters discuss models used in reliability, risk analysis, physics of failure, fracture mechanics, biological, pharmaceutical, and medical studies. They comprise an up-to-date, concise, and informative resource on reliability models, which does not require any special mathematical background. Read this book before you write your thesis or journal paper! Communicating Science is a textbook and reference on scientific writing oriented primarily at researchers in the physical sciences and engineering. It is written from the perspective of an experienced researcher. It draws on the authors' experience of teaching and working with both native English speakers and English as a Second Language (ESL) writers. For the range of topics covered, this book is relatively short and tersely written, in order to appeal to busy researchers. Communicating Science offers comprehensive guidance on: Research reports: journal papers, theses, and internal reports Review and publication process Conference and seminar presentations: lectures and posters Research proposals Business plans Patents Popular media Correspondence, CV's, and job hunting Writing well: writing strategies and guidance on English composition and grammar Graduate students and early career researchers will be guided through the researcher's basic communication tasks: writing theses, journal papers, and internal reports, presenting lectures and posters, and preparing research proposals. Extensive best practice examples and analyses of common problems are presented. Advanced researchers who aim to commercialize their research results will be introduced to business plans and patents, so that they can communicate optimally with patent attorneys and business analysts. Likewise, advanced researchers will be assisted in conveying the results of their research to the industrial and business community, governmental circles, and the general public in the chapter on popular media. Researchers at all levels will find the chapter on CV's and job hunting helpful. The Writing Well chapter will assist researchers to improve their English usage in scientific writing. This chapter is oriented both at native English

speakers, who have an intuitive command of English but often lack formal instruction on grammar and structure, and non-native English writers, who often have had formal instruction but lack intuitive grasp of what sounds good. Mentors will find the book a useful tool for systematically guiding their students in their early writing efforts. If your students read this book first, you will save time! Communicating Science may serve as a textbook for graduate level courses in scientific writing. Feedback Control Systems: A Fast Track Guide for Scientists and Engineers is an essential reference tool for: Electrical, mechanical and aerospace engineers who are developing or improving products, with a need to use feedback control systems. Faculty and graduate students in the fields of engineering and experimental science (e.g., physics) who are building their own high-performance measuring/test arrangements. Faculties teaching laboratory courses in engineering and measurement techniques, and the students taking those courses. Practising engineers, scientists, and students who need a quick intuitive education in the issues related to feedback control systems. Key features of Feedback Control Systems: The contents and the layout of the book are structured to ensure satisfactory proficiency for the novice designer. The authors provide the reader with a simple yet powerful method for designing control systems using several sensors or actuators. It offers a comprehensive control system troubleshooting and performance testing guide. From the reviewers: Control systems are ubiquitous and their use would be even more widespread if more people were competent in designing them. This book will play a valuable role in expanding the cadre of competent designers. This is a book that needed to be written, and its presentation is different from any other book on controls intended for a wide community of engineers and scientists. The book breaks the common cliché of style in the control literature that tends toward mathematical formality. Instead, the emphasis is on intuition and practical advice. The book contains a very valuable and novel heuristic treatment of the subject. .. one of the best examples of a book that describes the design cycle. The book will help satisfy the demand among practising engineers for a good introduction to control systems. A SCIENTIFIC APPROACH TO WRITING Technical ideas may be solid or even groundbreaking, but if these ideas cannot be clearly communicated, reviewers of technical documents—e.g., proposals for research funding, articles submitted to scientific journals, and business plans to commercialize technology—are likely to reject the argument for

advancing these ideas. The problem is that many engineers and scientists, entirely comfortable with the logic and principles of mathematics and science, treat writing as if it possesses none of these attributes. The absence of a systematic framework for writing often results in sentences that are difficult to follow or arguments that leave reviewers scratching their heads. This book fixes that problem by presenting a “scientific” approach to writing that mirrors the sensibilities of scientists and engineers, an approach based on an easily-discernable set of principles. Rather than merely stating rules for English grammar and composition, this book explains the reasons behind these rules and shows that good reasons can guide every writing decision. This resource is also well suited for the growing number of scientists and engineers in the U.S. and elsewhere who speak English as a second language, as well as for anyone else who just wants to be understood. The tools and technique used in the Design of Experiments (DOE) have been proved successful in meeting the challenge of continuous improvement over the last 15 years. However, research has shown that applications of these techniques in small and medium-sized manufacturing companies are limited due to a lack of statistical knowledge required for their effective implementation. Although many books have been written in this subject, they are mainly by statisticians, for statisticians and not appropriate for engineers. Design of Experiments for Engineers and Scientists overcomes the problem of statistics by taking a unique approach using graphical tools. The same outcomes and conclusions are reached as by those using statistical methods and readers will find the concepts in this book both familiar and easy to understand. The book treats Planning, Communication, Engineering, Teamwork and Statistical Skills in separate chapters and then combines these skills through the use of many industrial case studies. Design of Experiments forms part of the suite of tools used in Six Sigma. Key features: * Provides essential DOE techniques for process improvement initiatives * Introduces simple graphical techniques as an alternative to advanced statistical methods - reducing time taken to design and develop prototypes, reducing time to reach the market * Case studies place DOE techniques in the context of different industry sectors * An excellent resource for the Six Sigma training program This book will be useful to engineers and scientists from all disciplines tackling all kinds of manufacturing, product and process quality problems and will be an ideal resource for students of this topic. Dr Jiju Anthony is Senior Teaching Fellow at the

International Manufacturing Unit at Warwick University. He is also a trainer and consultant in DOE and has worked as such for a number of companies including Motorola, Vickers, Procter and Gamble, Nokia, Bosch and a large number of SMEs. * Provides essential DOE techniques for process improvement initiatives * Introduces simple graphical techniques as an alternative to advanced statistical methods - reducing time taken to design and conduct tests * Case studies place DOE techniques in the context of different industry sectors For the calculus-based General Physics course primarily taken by engineers and science majors (including physics majors). This long-awaited and extensive revision maintains Giancoli's reputation for creating carefully crafted, highly accurate and precise physics texts. Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the student into the physics. The new edition also features an unrivaled suite of media and on-line resources that enhance the understanding of physics. This book is written for students. It aims to explain physics in a readable and interesting manner that is accessible and clear, and to teach students by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality, and thus each topic begins with concrete observations and experiences that students can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand, but it is closer to the way physics is actually practiced. "This completely revised new edition is based on the latest version of MATLAB. New chapters cover handle graphics, graphical user interfaces (GUIs), structures and cell arrays, and importing/exporting data. The chapter on numerical methods now includes a general GUI-driver ODE solver."--Jacket. Written especially for scientists, engineers and mathematicians, this book has been extensively updated and revised to conform to the 1998 ANSI/ISO C++ Standard. It now includes all the recent developments in C++ . Amongst its novel features is that no knowledge of programming is assumed. It is as much for the beginner in programming as it is for the newcomer to C++. Plenty of relevant examples are included throughout the book, most of which are slanted towards numerical applications, and it is this bias that makes it unique in its field and of particular interest to those who have to work with figures. The only source that focuses exclusively on engineering and technology, this important guide maps the dynamic and changing field of information sources

published for engineers in recent years. Lord highlights basic perspectives, access tools, and English-language resources--directories, encyclopedias, yearbooks, dictionaries, databases, indexes, libraries, buyer's guides, Internet resources, and more. Substantial emphasis is placed on digital resources. The author also discusses how engineers and scientists use information, the culture and generation of scientific information, different types of engineering information, and the tools and resources you need to locate and access that material. Other sections describe regulations, standards and specifications, government resources, professional and trade associations, and education and career resources. Engineers, scientists, librarians, and other information professionals working with engineering and technology information will welcome this research

Software Design for Engineers and Scientists integrates three core areas of computing: . Software engineering - including both traditional methods and the insights of 'extreme programming' . Program design - including the analysis of data structures and algorithms . Practical object-oriented programming Without assuming prior knowledge of any particular programming language, and avoiding the need for students to learn from separate, specialised Computer Science texts, John Robinson takes the reader from small-scale programing to competence in large software projects, all within one volume. Copious examples and case studies are provided in C++. The book is especially suitable for undergraduates in the natural sciences and all branches of engineering who have some knowledge of computing basics, and now need to understand and apply software design to tasks like data analysis, simulation, signal processing or visualisation. John Robinson introduces both software theory and its application to problem solving using a range of design principles, applied to the creation of medium-sized systems, providing key methods and tools for designing reliable, efficient, maintainable programs. The case studies are presented within scientific contexts to illustrate all aspects of the design process, allowing students to relate theory to real-world applications. Core computing topics - usually found in separate specialised texts - presented to meet the specific requirements of science and engineering students Demonstrates good practice through applications, case studies and worked examples based in real-world contexts In the era of information technology, organizations seek employees who have excellent communication skills. The advantage is for the individuals who, with their excellent communicative ability, are able to meet the

challenges of the professional world through diverse paths such as writing, speaking, reading, and listening. This comprehensive and student friendly book dwells on various aspects of technical communication that students of science and engineering should be familiar with. Divided into two parts, Part A of the text describes in detail the planning, designing and drafting of documents for a broad range of situations and applications. The text explores the types of business letters reflecting current practices, and different techniques of drafting them. Since, in the professional settings, executives have to work in teams, the book explains various causes of communication breakdown and ways to overcome them. A separate chapter is devoted to Advertising. Part B elaborates on Group Communication taking into consideration the collective and individual requirements. This part also includes individual chapters on Effective Presentation, Non-Verbal Cues, Speeches, Interviews, and Negotiation Skills so as to orient young professionals towards new challenges. This compact book is intended primarily as a text for undergraduate students of engineering and science. Besides, students of business management would also find the book immensely valuable. In addition, the text would be a handy reference for practicing professionals who wish to hone their communication skills for achieving better results and should prove extremely useful for those involved in everyday communication. Over 400 engineering and science problems are included throughout this book. Special sections in each chapter cover debugging and style guidelines. Gauss elimination has been added as well as a new section on sorting and searching. An excellent text for clients to read before meeting with attorneys so they'll understand the fundamentals of patent, copyright, trade secret, trademark, mask work, and unfair competition laws. This is not a "do-it-yourself" manual but rather a ready reference tool for inventors or creators that will generate maximum efficiencies in obtaining, preserving and enforcing their intellectual property rights. It explains why they need to secure the services of IPR attorneys. Coverage includes employment contracts, including the ability of engineers to take confidential and secret knowledge to a new job, shop rights and information to help an entrepreneur establish a non-conflicting enterprise when leaving their prior employment. Sample forms of contracts, contract clauses, and points to consider before signing employment agreements are included. Coverage of copyright, software protection, and the Digital Millennium Copyright Act (DMCA) as well as the procedural

variances in international intellectual property laws and procedures. Designed for the introductory calculus-based physics course, *Physics for Engineers and Scientists* is distinguished by its lucid exposition and accessible coverage of fundamental physical concepts. Presenting a modern view of classical mechanics and electromagnetism for today's science and engineering students, it includes coverage of optics and quantum physics, emphasizing the relationship between macroscopic and microscopic phenomena. Organised to address specific concepts and then build on them, this highly readable textbook divides each chapter into short, focused sections followed by review questions. Using real-world examples, the authors offer a glimpse of the practical applications of physics in science and engineering, developing a solid conceptual foundation before introducing mathematical results and derivations (a basic knowledge of derivatives and integrals is assumed). The third edition of this bestseller examines the principles of artificial intelligence and their application to engineering and science, as well as techniques for developing intelligent systems to solve practical problems. Covering the full spectrum of intelligent systems techniques, it incorporates knowledge-based systems, computational intelligence This updated text provides a superior introduction to applied probability and statistics for engineering or science majors. Ross emphasizes the manner in which probability yields insight into statistical problems; ultimately resulting in an intuitive understanding of the statistical procedures most often used by practicing engineers and scientists. Real data sets are incorporated in a wide variety of exercises and examples throughout the book, and this emphasis on data motivates the probability coverage. As with the previous editions, Ross' text has remendously clear exposition, plus real-data examples and exercises throughout the text. Numerous exercises, examples, and applications apply probability theory to everyday statistical problems and situations. New to the 4th Edition: - New Chapter on Simulation, Bootstrap Statistical Methods, and Permutation Tests - 20% New Updated problem sets and applications, that demonstrate updated applications to engineering as well as biological, physical and computer science - New Real data examples that use significant real data from actual studies across life science, engineering, computing and business - New End of Chapter review material that emphasizes key ideas as well as the risks associated with practical application of the material This book discusses instrumentation and experimental methods for obtaining detailed information on the

structure of various types of flows as well as standard process flow instrumentation suitable for industrial control applications. It assists research-oriented and process engineering personnel. The book provides a comprehensive review of lifelong learning, information literacy and internships including assessment techniques for lifelong learning, teamwork and information literacy as defined by the ABET criteria. It also discusses critical thinking skills for scientists and engineers and their role in lifelong learning in the information age. It will be invaluable for: Engineering educators including librarians interested in developing programs to satisfy the ABET criteria for lifelong learning and teamwork. Engineering librarians developing programs and assessment tools for information literacy using online databases and the Internet. Engineering educators and career advisors interested in developing internship programs in engineering. An internship is defined as work performed in an industrial setting that provides practical experience and adds value to the classroom and research learning processes. This book will cover all aspects involved in administering internship and cooperative education programs. Employers of interns will find useful information on needs assessment, program development, evaluation and the importance of lifelong learning; and, Science and engineering educators interested in developing critical thinking skills in their students as an aid to developing lifelong learning skills especially given the challenges in the digital age. Provides information on how to develop programs and assessment tools for information literacy Describes how to set up an internship program Develops critical thinking skills This unified introduction provides the tools and techniques needed to analyze plasmas and connects plasma phenomena to other fields of study. Combining mathematical rigor with qualitative explanations, and linking theory to practice with example problems, this is a perfect textbook for senior undergraduate and graduate students taking one-semester introductory plasma physics courses. For the first time, material is presented in the context of unifying principles, illustrated using organizational charts, and structured in a successive progression from single particle motion, to kinetic theory and average values, through to collective phenomena of waves in plasma. This provides students with a stronger understanding of the topics covered, their interconnections, and when different types of plasma models are applicable. Furthermore, mathematical derivations are rigorous, yet concise, so physical understanding is not lost in lengthy mathematical treatments.

Worked examples illustrate practical applications of theory and students can test their new knowledge with 90 end-of-chapter problems. Ideal for a one-semester course, this concise textbook covers basic electronics for undergraduate students in science and engineering. Beginning with the basics of general circuit laws and resistor circuits to ease students into the subject, the textbook then covers a wide range of topics, from passive circuits through to semiconductor-based analog circuits and basic digital circuits. Using a balance of thorough analysis and insight, readers are shown how to work with electronic circuits and apply the techniques they have learnt. The textbook's structure makes it useful as a self-study introduction to the subject. All mathematics is kept to a suitable level, and there are several exercises throughout the book. Password-protected solutions for instructors, together with eight laboratory exercises that parallel the text, are available online at www.cambridge.org/Eggleston. The tools and techniques used in Design of Experiments (DoE) have been proven successful in meeting the challenge of continuous improvement in many manufacturing organisations over the last two decades. However research has shown that application of this powerful technique in many companies is limited due to a lack of statistical knowledge required for its effective implementation. Although many books have been written on this subject, they are mainly by statisticians, for statisticians and not appropriate for engineers. Design of Experiments for Engineers and Scientists overcomes the problem of statistics by taking a unique approach using graphical tools. The same outcomes and conclusions are reached as through using statistical methods and readers will find the concepts in this book both familiar and easy to understand. This new edition includes a chapter on the role of DoE within Six Sigma methodology and also shows through the use of simple case studies its importance in the service industry. It is essential reading for engineers and scientists from all disciplines tackling all kinds of manufacturing, product and process quality problems and will be an ideal resource for students of this topic. Written in non-statistical language, the book is an essential and accessible text for scientists and engineers who want to learn how to use DoE Explains why teaching DoE techniques in the improvement phase of Six Sigma is an important part of problem solving methodology New edition includes a full chapter on DoE for services as well as case studies illustrating its wider application in the service industry Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND

ENGINEERS WITH MODERN PHYSICS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This book provides a complete illustration of deep learning concepts with case-studies and practical examples useful for real time applications. This book introduces a broad range of topics in deep learning. The authors start with the fundamentals, architectures, tools needed for effective implementation for scientists. They then present technical exposure towards deep learning using Keras, Tensorflow, Pytorch and Python. They proceed with advanced concepts with hands-on sessions for deep learning. Engineers, scientists, researches looking for a practical approach to deep learning will enjoy this book. Presents practical basics to advanced concepts in deep learning and how to apply them through various projects; Discusses topics such as deep learning in smart grids and renewable energy & sustainable development; Explains how to implement advanced techniques in deep learning using Pytorch, Keras, Python programming. This book provides a complete illustration of deep learning concepts with case-studies and practical examples useful for real time applications. This book introduces a broad range of topics in deep learning. The authors start with the fundamentals, architectures, tools needed for effective implementation for scientists. They then present technical exposure towards deep learning using Keras, Tensorflow, Pytorch and Python. They proceed with advanced concepts with hands-on sessions for deep learning. Engineers, scientists, researches looking for a practical approach to deep learning will enjoy this book. Presents practical basics to advanced concepts in deep learning and how to apply them through various projects; Discusses topics such as deep learning in smart grids and renewable energy & sustainable development; Explains how to implement advanced techniques in deep learning using Pytorch, Keras, Python programming. Introducing the tools of statistics and probability from the ground up An understanding of statistical tools is essential for engineers and scientists who often need to deal with data analysis over the course of their work. Statistics and Probability with Applications for Engineers and Scientists walks

readers through a wide range of popular statistical techniques, explaining step-by-step how to generate, analyze, and interpret data for diverse applications in engineering and the natural sciences. Unique among books of this kind, *Statistics and Probability with Applications for Engineers and Scientists* covers descriptive statistics first, then goes on to discuss the fundamentals of probability theory. Along with case studies, examples, and real-world data sets, the book incorporates clear instructions on how to use the statistical packages Minitab® and Microsoft® Office Excel® to analyze various data sets. The book also features:

- Detailed discussions on sampling distributions, statistical estimation of population parameters, hypothesis testing, reliability theory, statistical quality control including Phase I and Phase II control charts, and process capability indices**
- A clear presentation of nonparametric methods and simple and multiple linear regression methods, as well as a brief discussion on logistic regression method**
- Comprehensive guidance on the design of experiments, including randomized block designs, one- and two-way layout designs, Latin square designs, random effects and mixed effects models, factorial and fractional factorial designs, and response surface methodology**
- A companion website containing data sets for Minitab and Microsoft Office Excel, as well as JMP® routines and results**

Assuming no background in probability and statistics, *Statistics and Probability with Applications for Engineers and Scientists* features a unique, yet tried-and-true, approach that is ideal for all undergraduate students as well as statistical practitioners who analyze and illustrate real-world data in engineering and the natural sciences. The *Handbook of Mathematics for Engineers and Scientists* covers the main fields of mathematics and focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology. To accommodate different mathematical backgrounds, the preeminent authors outline the material in a simplified, schematic manner, avoiding special terminology wherever possible. Organized in ascending order of complexity, the material is divided into two parts. The first part is a coherent survey of the most important definitions, formulas, equations, methods, and theorems. It covers arithmetic, elementary and analytic geometry, algebra, differential and integral calculus, special functions, calculus of variations, and probability theory. Numerous specific examples clarify the methods for solving

problems and equations. The second part provides many in-depth mathematical tables, including those of exact solutions of various types of equations. This concise, comprehensive compendium of mathematical definitions, formulas, and theorems provides the foundation for exploring scientific and technological phenomena. This book provides a pragmatic, methodical and easy-to-follow presentation of numerical methods and their effective implementation using MATLAB, which is introduced at the outset. Each method is accompanied by at least one fully worked-out example showing essential details involved in preliminary hand calculations, as well as computations in MATLAB -- Publisher description. Familiarize yourself with Scilab using this concise, practical tutorial that is focused on writing code to learn concepts. Starting from the basics, this book covers array-based computing, plotting, and working with files in Scilab. Introduction to Scilab is useful for industry engineers, researchers, and students who are looking for open-source solutions for numerical computation. In this book you will learn by doing, avoiding technical jargon, which makes the concepts easy to learn. First you'll see how to run basic calculations, absorbing technical complexities incrementally as you progress toward advanced topics. Throughout, the language is kept simple to ensure that readers at all levels can grasp the concepts. After reading this book, you will come away with sample code that can be re-purposed and applied to your own projects using Scilab. What You'll Learn Apply sample code to your engineering or science problems Work with Scilab arrays, functions, and loops Use Scilab's plotting functions for data visualization Solve numerical computing and computational engineering problems with Scilab Who This Book Is For Engineers, scientists, researchers, and students who are new to Scilab. Some prior programming experience would be helpful but not required. The topics of this set of student-oriented books are presented in a discursive style that is readable and easy to follow. Numerous clearly stated, completely worked out examples together with carefully selected problem sets with answers are used to enhance students' understanding and manipulative skill. The goal is to help students feel comfortable and confident in using advanced mathematical tools in junior, senior, and beginning graduate courses. This modern presentation comprehensively addresses the principal issues in modern instrumentation, but without attempting an encyclopaedic reference. It covers the most important topics in electronics, sensors, measurements and acquisition systems, and will be an indispensable reference for readers in a wide variety of

disciplines. This book offers a practical, application-oriented introduction to computational fluid dynamics (CFD), with a focus on the concepts and principles encountered when using CFD in industry. Presuming no more knowledge than college-level understanding of the core subjects, the book puts together all the necessary topics to give the reader a comprehensive introduction to CFD. It includes discussion of the derivation of equations, grid generation and solution algorithms for compressible, incompressible and hypersonic flows. The final two chapters of the book are intended for the more advanced user. In the penultimate chapter, the special difficulties that arise while solving practical problems are addressed. Distinction is made between complications arising out of geometrical complexity and those arising out of the complexity of the physics (and chemistry) of the problem. The last chapter contains a brief discussion of what can be considered as the Holy Grail of CFD, namely, finding the optimal design of a fluid flow component. A number of problems are given at the end of each chapter to reinforce the concepts and ideas discussed in that chapter. CFD has come of age and is widely used in industry as well as in academia as an analytical tool to investigate a wide range of fluid flow problems. This book is written for two groups: for those students who are encountering CFD for the first time in the form of a taught lecture course, and for those practising engineers and scientists who are already using CFD as an analysis tool in their professions but would like to deepen and broaden their understanding of the subject. The focus of this text is to teach engineering students the skill of technical writing. The book is unique in that it gets to the point, uses practical outlines throughout, and actually shows students how to produce the most common technical documents step-by-step. The book also employs a casual approach that is focused on providing real-world information a straightforward, easy-to-understand way. . . . This groundbreaking text provides background theory on the concept of sustainable development (environmental, social and economic aspects) and presents a series of practical case studies on such topics as waste water management, air quality, solid waste management and renewable energy. "This book introduces machine learning for readers with some background in basic linear algebra, statistics, probability, and programming. In a coherent statistical framework it covers a selection of supervised machine learning methods, from the most fundamental (k-NN, decision trees, linear and logistic regression) to more advanced methods (deep neural

networks, support vector machines, Gaussian processes, random forests and boosting), plus commonly-used unsupervised methods (generative modeling, k-means, PCA, autoencoders and generative adversarial networks). Careful explanations and pseudo-code are presented for all methods. The authors maintain a focus on the fundamentals by drawing connections between methods and discussing general concepts such as loss functions, maximum likelihood, the bias-variance decomposition, ensemble averaging, kernels and the Bayesian approach along with generally useful tools such as regularization, cross validation, evaluation metrics and optimization methods. The final chapters offer practical advice for solving real-world supervised machine learning problems and on ethical aspects of modern machine learning"-- "The purpose of this book is to provide engineering and science students with straightforward, practical solutions that will be easy and painless to use for meeting a wide range of technical writing challenges, whether in the classroom or the workplace"--

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