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Salary surveys worldwide regularly place software architect in the top 10 best jobs, yet no real guide exists to help developers become architects. Until now. This book provides the first comprehensive overview of software architecture's many aspects. Aspiring and existing architects alike will examine architectural characteristics, architectural patterns, component determination, diagramming and presenting architecture, evolutionary architecture, and many other topics. Mark Richards and Neal Ford—hands-on practitioners who have taught software architecture classes professionally for years—focus on architecture principles that apply across all technology stacks. You'll explore software architecture in a modern light, taking into account all the innovations of the past decade. This book examines: Architecture patterns: The technical basis for many architectural decisions Components: Identification, coupling, cohesion, partitioning, and granularity Soft skills: Effective team management, meetings, negotiation, presentations, and more Modernity: Engineering practices and operational approaches that have changed radically in the past few years Architecture as an engineering discipline: Repeatable results, metrics, and concrete valuations that add rigor to software architecture Comprehensively teaches the fundamentals of supply chain theory This book presents the methodology and foundations of supply chain management and also demonstrates how recent developments build upon classic models. The authors focus on strategic, tactical, and operational aspects of supply chain management and cover a broad range of topics from forecasting, inventory management, and facility location to transportation, process flexibility, and auctions. Key mathematical models for optimizing the design, operation, and evaluation of supply chains are presented as well as models currently emerging from the research frontier. Fundamentals of Supply Chain Theory, Second Edition contains new chapters on transportation (traveling salesman and vehicle routing problems), integrated supply chain models, and applications of supply chain theory. New sections have also been added throughout, on topics including machine learning models for forecasting, conic optimization for facility location, a multi-supplier model for supply uncertainty, and a game-theoretic analysis of auctions. The second edition also contains case studies for each chapter that illustrate the real-world implementation of the models presented. This edition also contains nearly 200 new homework problems, over 60 new worked examples, and over 140 new illustrative figures. Plentiful teaching supplements are available, including an Instructor's Manual and PowerPoint slides, as well as MATLAB programming assignments that require students to code algorithms in an effort to provide a deeper understanding of the material. Ideal as a textbook for upper-undergraduate and graduate-level courses in supply chain management in engineering and business schools, Fundamentals of Supply Chain Theory, Second Edition will also appeal to anyone interested in quantitative approaches for studying supply chains. (Black & White version) Fundamentals of Business was created for Virginia Tech's MGT 1104 Foundations of Business through a collaboration between the Pamplin College of Business and Virginia Tech Libraries. This book is freely available at: <http://hdl.handle.net/10919/70961> It is licensed with a Creative Commons-NonCommercial ShareAlike 3.0 license. Meet modern portraiture head-on with this step-by-step beginner's guide to creating stylized portrait, written by the industry's leading character designers. "An exceptionally clear, compact, and affordable introduction to a broad range of ethical theories"--Delivering a solid introduction to assembly language and embedded systems, ARM Assembly Language: Fundamentals and Techniques, Second Edition continues to support the popular ARM7TDMI, but also addresses the latest architectures from ARM, including CortexTM-A, Cortex-R, and Cortex-M processors—all of which have slightly different instruction sets, programmer's models, and exception handling. Featuring three brand-new chapters, a new appendix, and expanded coverage of the ARM7TM, this edition: Discusses IEEE 754 floating-point arithmetic and explains how to program with the IEEE standard notation Contains step-by-step directions for the use of KeilTM MDK-ARM and Texas Instruments (TI) Code Composer StudioTM Provides a resource to be used alongside a variety of hardware evaluation modules, such as TI's Tiva Launchpad, STMicroelectronics' iNemo and Discovery, and NXP Semiconductors' Xplorer boards Written by experienced ARM processor designers, ARM Assembly Language: Fundamentals and Techniques, Second Edition covers the topics essential to writing meaningful assembly programs, making it an ideal textbook and professional reference. Widely known and used throughout the astrodynamics and aerospace engineering communities, this teaching text was developed at the U.S. Air Force Academy. Completely revised and updated 2013 edition. A back-to-basics look at the fundamental concepts, conventions and theory that should be considered when creating art. Maintaining the outstanding features and practical approach that led the bestselling first edition to become a standard textbook in engineering classrooms worldwide, Clarence de Silva's Vibration: Fundamentals and Practice, Second Edition remains a solid instructional tool for modeling, analyzing, simulating, measuring, monitoring, testing, controlling, and designing for vibration in engineering systems. It condenses the author's distinguished and extensive experience into an easy-to-use, highly practical text that prepares students for real problems in a variety of engineering fields. What's New in the Second Edition? A new chapter on human response to vibration, with practical considerations Expanded and updated material on vibration monitoring and diagnosis Enhanced section on vibration control, updated with the latest techniques and methodologies New worked examples and end-of-chapter problems. Incorporates software tools, including LabVIEWTM, SIMULINK®, MATLAB®, the LabVIEW Sound and Vibration Toolbox, and the MATLAB Control Systems Toolbox Enhanced worked examples and new solutions using MATLAB and SIMULINK The new chapter on human response to vibration examines representation of vibration detection and perception by humans as well as specifications and regulatory guidelines for human vibration environments. Remaining an indispensable text for advanced undergraduate and graduate students, Vibration: Fundamentals and Practice, Second Edition builds a unique and in-depth understanding of vibration on a sound framework of practical tools and applications. Fundamentals of Light Microscopy and Electronic Imaging, Second Edition provides a coherent introduction to the principles and applications of the integrated optical microscope system, covering both theoretical and practical considerations. It expands and updates discussions of multi-spectral imaging, intensified digital cameras, signal colocalization, and uses of objectives, and offers guidance in the selection of microscopes and electronic cameras, as well as appropriate auxiliary optical systems and fluorescent tags. The book is divided into three sections covering optical principles in diffraction and image formation, basic modes of light microscopy, and components of modern electronic imaging systems and image processing operations. Each chapter introduces relevant theory, followed by descriptions of instrument alignment and image interpretation. This revision includes new chapters on live cell imaging, measurement of protein dynamics, deconvolution microscopy, and interference microscopy. PowerPoint slides of the figures as well as other supplementary materials for instructors are available at a companion website: www.wiley.com/go/murphy/lightmicroscopy Effective security rules and procedures do not exist for their own sake—they are put in place to protect critical assets, thereby supporting overall business objectives. Recognizing security as a business enabler is the first step in building a successful program. Information Security Fundamentals allows future security professionals to gain a solid understanding of the foundations of the field and the entire range of issues that practitioners must address. This book enables students to understand the key elements that comprise a successful information security program and eventually apply these concepts to their own efforts. The book examines the elements of computer security, employee roles and responsibilities, and common threats. It examines the need for management controls, policies and procedures, and risk analysis, and also presents a comprehensive list of tasks and objectives that make up a typical information protection program. The volume discusses organizationwide policies and their documentation, and legal and business requirements. It explains policy format, focusing on global, topic-specific, and application-specific policies. Following a review of asset classification, the book explores access control, the components of physical security, and the foundations and processes of risk analysis and risk management. Information Security Fundamentals concludes by describing business continuity planning, including preventive controls, recovery strategies, and ways to conduct a business impact analysis. A fully revised and updated edition of this back-to-basics title, packed with the fundamental concepts, conventions and theory needed when creating art. Drawing on state-of-the-art research results, Resistance Welding: Fundamentals and Applications, Second Edition systematically presents fundamental aspects of important processes in resistance welding and discusses their implications on real-world welding applications. This updated edition describes progress made in resistance welding research and An introductory text, Electricity and Electronics Fundamentals, delineates key concepts in electricity using a simplified approach that enhances learning. Mathematical calculations are kept to the very minimum and concepts are demonstrated through application examples and illustrations. The books span of topics includes vital information on direct current electronics, alternating current electricity and semiconductor devices as well as electronic circuits, digital electronics, computers and microprocessors, electronic communications, and electronic power control. Supplementary appendices provide a glossary and section on electrical safety along with an explanation of soldering techniques. Instructor Resources: Test Bank, PowerPoint slides, a sample course syllabus, solutions to the end-of chapter questions and problems, and solutions to the online cases. To see a sample, click on the Instructor Resource sample tab above. Bonus Chapters 14-17 Student Companion Website - Cases Student Companion Website - Appendix A Student Companion Website - Appendix B Corrections Fundamentals of Healthcare Finance, in its second edition, continues to be ideal for individuals needing basic healthcare finance skills. This easy-to-read, content-filled book presents a broad overview of healthcare finance, but focuses on tasks that are essential to the operational management of clinical services, including estimating costs and profits, planning and budgeting, analyzing new equipment purchases, using metrics to monitor operations, and working with financial statements. To assist the learning process, this book includes critical concepts, practical scenarios, self-test questions, industry-practice sidebars, and a running glossary. The second edition has been thoroughly updated, including its many real-world examples. In addition, a section on healthcare reform has been added that includes discussions of value-based purchasing, bundling, accountable care organizations, and medical homes. Additional features in the second edition include updated accounting coverage that conforms to the latest AICPA formats and a new student engagement tool. For Your Consideration sidebars, which present scenarios designed to make students think about current, sometimes controversial, issues. Companion website includes: Bonus chapters that cover financial markets and securities; lease financing and business valuation; distributions to owners; and capitation, rate setting, and risk sharing Appendixes of financial and operational ratios and their definitions Introductory, real-world cases with questions intended for either self-directed learning or in-class use Companion casebook Cases In Healthcare Finance, Fifth Edition is an ideal supplement to this text. Through real-world cases, it provides the opportunity to bridge the gap between learning concepts in a lecture setting and applying these concepts on the job. Be better prepared to deal with the multitude of issues that arise in the practice of healthcare finance. An introductory guide to basic science and engineering concepts. Now in its Third Edition, the Artech House bestseller, Fundamentals and Applications of Microfluidics, provides engineers and students with the most complete and current coverage of this cutting-edge field. This revised and expanded edition provides updated discussions throughout and features critical new material on microfluidic power sources, sensors, cell separation, organ-on-chip and drug delivery systems, 3D culture devices, droplet-based chemical synthesis, paper-based microfluidics for point-of-care, ion concentration polarization, micro-optofluidics and micro-magnetofluidics. The book shows how to take advantage of the performance benefits of microfluidics and serves as an instant reference for state-of-the-art microfluidics technology and applications. Readers find discussions on a wide range of applications, including fluid control devices, gas and fluid measurement devices, medical testing equipment, and implantable drug pumps. Professionals get practical guidance in choosing the best fabrication and enabling technology for a specific microfluidic application, and learn how to design a microfluidic device. Moreover, engineers get simple calculations, ready-to-use data tables, and rules of thumb that help them make design decisions and determine device characteristics quickly. addressed at the design stage to reduce the risk of failures in the field is presented. The book includes technical details of all state-of-the-art Li-on energy storage subsystems and their requirements, and provides a system designer a single resource detailing all of the common issues navigated when using Li-ion batteries to reduce the risk of field failures. The book details the various industry standards that are applicable to the subsystems of Li-ion energy storage systems and how the requirements of these standards may impact the design of their system. Checklists are included to help readers evaluate their own battery system designs and identify gaps in the designs that increase the risk of field failures. The book is packed with numerous examples of issues that have caused field failures and how a proper design/assembly process could have reduced the risk of these failures. Annotation Strategies for configuring, monitoring, and troubleshooting new Cisco telephony software! First book with specific coverage of Cisco CallManager written by its key developers. Includes specific configuration examples, configuration guidelines, troubleshooting tips, and case studies. Provides detailed information about such complex issues as Cisco CallManager routing and diagnostics. Cisco CallManager Fundamentals provides reference information about Cisco CallManager. This book fully details the innerworkings of Cisco CallManager, which will empower those responsible for designing and maintaining the system with the availability to make intelligent decisions about what, when, and how features within Cisco CallManager can be used. John Alexander is a software development manager for Cisco Systems. John managed the development of the call processing softwares as well as software development tasks. Chris Pearce has been a software engineer in telecommunications for the past nine years. In 1994 he was one of the first four engineers that designed and implemented what would eventually become the Cisco CallManager. Anne Smith is a senior technical writer at Cisco Systems, author of over two dozen user guides, online help files, and Web-based documentation for various software and telephony companies. Delon Whetten is the technical lead of the Cisco CallManager software group at Cisco Systems. He has been involved in the design and development of message switching, voice messaging, video conferencing, and Voice over IP call management systems for the last 24 years. Fundamentals of Economics for Business is an innovative text designed specifically for students in business education programs. It provides a comprehensive yet accessible introduction to the key economic issues relevant to present or future business decision-makers. Reflecting the requirements of globalization, the content is international in scope and is applicable worldwide. The material is easily adaptable to courses of different lengths and educational objectives, including a one-semester MBA course, economics courses in an undergraduate commerce or business degree, or an executive MBA program. This second edition adds significant new material on production costs, managerial economics, growth and competitiveness, and includes new case studies with applications to international business. Provides information on all aspects of fashion design, including research and design, fabrics, construction, and developing a collection. This text aims to expose students to the science of optics and optical engineering without the complications of advanced physics and mathematical theory. Is it possible to learn something without being aware of it? How does emotion influence the way we think? How can we improve our memory? Fundamentals of Cognition, third edition, provides a basic, reader-friendly introduction to the key cognitive processes we use to interact successfully with the world around us. Our abilities in attention, perception, learning, memory, language, problem solving, thinking, and reasoning are all vitally important in enabling us to cope with everyday life. Understanding these processes through the study of cognitive psychology is essential for understanding human behaviour. This edition has been thoroughly updated and revised with an emphasis on making it even more accessible to introductory-level students. Bringing on board Professor Marc Brysbaert, a world-leading researcher in the psychology of language, as co-author, this new edition includes: developed and extended research activities and "In the Real World" case studies to make it easy for students to engage with the material; new real-world topics such as discussions of attention-deficit/hyperactivity disorder, the reading problems of individuals with dyslexia, why magic tricks work, and why we cannot remember the Apple logo accurately; a supporting companion website containing multiple choice questions, flashcards, sample essay answers, instructor resources, and more. The book provides a perfect balance between traditional approaches to cognition and cutting-edge cognitive neuroscience and cognitive neuropsychology. Covering all the key topics within cognition, this comprehensive overview is essential reading for all students of cognitive psychology and related areas such as clinical psychology. A large number of American franchise systems have, over the last 40 years, made Canada one of their chose international expansion targets. This new book, written by experienced Canadian franchise lawyers, will help you advise your clients who are considering expansion into the Canadian marketplace. The book outlines a host of important differences when comparing the business, law and practice of franchising in Canada and the United States, as well as the numerous similarities between the culture and law of both societies. Topics include: structuring and expansion to Canada; trade-mark and other intellectual property issues; the Canadian franchise agreement; franchise disclosure issues; privacy issues and dispute resolution and franchise litigation in Canada. The book also includes practice notes throughout the book, highlighting key points. * This is the "official" book on FirebirdSQL—it's being written with the support of the development and management team. * Includes an extensive set of working, real-world examples, a troubleshooting guide, and a guide to migrating existing databases to FirebirdSQL. * This is the only book on the topic; appeals to users worldwide, especially in Europe; Most people deploy Firebird on Windows. Originally published in 1983, Fundamentals of Preaching is a comprehensive textbook on preaching, guiding the novice from the first steps of conceiving the sermon through the actual construction and delivery. In this new, revised edition, Killinger enhances the outstanding, practical qualities of the text with much input from recent homiletical studies and

the preaching of women. Learn to master essential volleyball skills such as serving, receiving, setting, attacking, blocking and digging. With this book's coverage of scoring systems, rules, rotations, and common tactics, it's never been easier to teach or learn the game. This book provides a comprehensive introduction to advanced drug delivery and targeting, covering their principles, current applications, and potential future developments. This edition has been updated to reflect significant trends and cutting-edge advances that have occurred since the first edition was published. All the original chapters have been retained, but the material therein has been updated. Eight new chapters have been added that deal with entirely new technologies and approaches. Features: Offers a comprehensive introduction to the fundamental concepts and underlying scientific principles of drug delivery and targeting Presents an in-depth analysis of the opportunities and obstacles afforded by the application of nanotechnologies for drug delivery and targeting Includes a revised and expanded section on the major epithelial routes of drug delivery currently under investigation Describes the most recent, emerging, and innovative technologies of drug delivery Provides real-life examples of the clinical translation of drug delivery technologies through the use of case studies Discusses the pertinent regulatory hurdles and safety issues of drug delivery and targeting systems—crucial considerations in order to achieve licensing approval for these new technologies Mastering Music Fundamentals is a prescriptive, hands-on introduction to the fundamentals of music theory that presents the subject in a user-friendly format so that students immediately are comfortable with the material. The organization and presentation of chapter topics revolve around essential principles explained and reinforced with numerous problems for students to solve. The book does not simply present basic theory; rather, it guides students using a visual step-by-step process that anticipates and answers their questions. Highlights of the Second Edition include an improved and streamlined approach to pedagogy, homework assignments, worksheets with answers at the end of each chapter, and an innovative hybrid methodology that addresses both traditional and programmatic learning styles. Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicist or engineer. A "street smart" look at incident management in all its permutations Incident Management Systems (IMS) provide the means by which to coordinate the efforts of individual agencies in order to stabilize an incident and protect life, property, and the environment. Born from the FireScope project of the late 1960s, which was developed in response to the major wildfires that regularly plagued Southern California, these systems have evolved with many similarities and certain fundamental differences. Emergency Incident Management Systems: Fundamentals and Applications contrasts the major forms of Incident Management/Incident Command Systems. The author illuminates these differences and offers a fresh perspective on the concepts on which these systems are founded in order to make them more accessible and user-friendly. Without suggesting major changes in the systems, he bridges the gap between their theoretical and academic foundations and their real-world applications, and makes them more applicable to the professional's daily needs. Timely features of the book include: * An "in the field" point of view * Coverage of incidents of mass destruction * Filled-out sample forms designed to aid professionals in completing reports In post-9/11 America, where incident management has become a national priority—one that must be easily understood and applicable across all emergency systems—this book provides a useful tool for helping today's emergency workers be more informed and more prepared than ever. A hands-on approach to mastering the basics in class and online. The Musician's Guide to Fundamentals teaches the basics of music—listening, writing, and performing—using real music, from Bach to the Beatles, Broadway to the Black-Eyed Peas. A unique hands-on approach invites students to listen to music from day one as they learn to interpret musical notation and, eventually, to use it to compose songs of their own. New online resources—including an ebook, online notation from Noteflight, and quizzes—offer opportunities to listen, read, and turn in assignments online. Parties to cross-border disputes arising anywhere in the vast Portuguese-speaking world – a community of more than 230 million in a space that offers a wide array of investment opportunities across four continents – increasingly seek Portugal as their preferred seat of arbitration. A signatory to all relevant international conventions, Portugal has proven to be an 'arbitration-friendly' jurisdiction. This volume is the first and so far only book in English that provides a thorough, in-depth analysis of international arbitration law and practice in Portugal. Its contributing authors are among the most highly regarded legal names in the country, including scholars, arbitrators, and practitioners. The authors describe how international arbitration proceedings are conducted in Portugal, what cautions should be taken, and what procedural strategies may be suitable in particular cases. They provide insightful answers to questions such as the following: What matters can be submitted to arbitration under Portuguese law? What are the validity requirements for an arbitration agreement? How do the State courts interact with arbitration proceedings and what is the attitude of such courts toward international arbitration? What are the rules governing evidentiary matters in arbitration? How is an arbitration tribunal constituted? How are arbitrators appointed? How may they be challenged? How can an international arbitral award be recognized and enforced? How does the Portuguese legal system address the issue of damages and what specific damages are admitted? How are the costs of arbitration proceedings estimated and allocated? The book includes analyses of arbitration related to specific fields of the law, notably sports, administrative, tax, intellectual property rights (especially regarding reference and generic medicines), and corporate disputes. Each chapter provides, for the topics it addresses, an examination of the applicable laws, rules, arbitration practice, and views taken by arbitral tribunals and state courts as well as those of the most highly considered scholars. As a detailed examination of the legal framework and of all procedural steps of an arbitration in Portugal, from the drafting of an arbitration agreement to the enforcement of an award, this book constitutes an invaluable resource for parties involved in or considering an international arbitration in this country. The guidance that it seeks to provide in respect of any problem likely to arise in this context can be useful to arbitrators, judges, academics, and interested lawyers. Perfect for hand therapy specialists, hand therapy students, and any other professional who encounters clients with upper extremity issues, Fundamentals of Hand Therapy, 2nd Edition contains everything you need to make sound therapy decisions. Coverage includes hand anatomy, the evaluation process, and diagnosis-specific information. Expert tips, treatment guidelines, and case studies round out this comprehensive text designed to help you think critically about each client's individual needs. "Overall, a very clear readable style is adopted throughout, with theory supported by various anecdotal case studies. Excellent use is made of illustrations, and many chapters contain the helpful addition of 'clinical pearls' or 'tips from the field', which are an attempt to make transparent the links between theory and practice. In conclusion, this is an excellent core text for reference purposes." Reviewed by: British Journal of Occupational Therapy Date: Aug 2014 Clinical Pearls and Precautions highlight relevant information learned by the experienced author and contributors that you can apply to clinical practice. Case examples included in the diagnoses chapters in Part Three demonstrate the use of clinical reasoning and a humanistic approach in treating the client. Diagnosis-specific information in the final section of the book is well-organized to give you quick access to the information you need. Special features sections such as Questions to Discuss with the Physician, What to Say to Clients, Tips from the Field, and more help readers find their own clinical voices. Online sample exercises give you a pool to pull from during professional practice. NEW! Chapters on yoga and pilates provide guidance into new ways to treat upper extremity problems. NEW! Chapter on wound care gives you a thorough foundation on how wounds impact therapeutic outcomes. NEW! Chapter on orthotics has been added to cover basic splinting patterns. NEW! Online resources help assess your understanding and retention of the material. Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Azure Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the "Microsoft Azure Essentials" series. Stage Lighting: The Fundamentals is written specifically for introductory stage lighting courses. The book begins with an examination of the nature of light, perception, and color, then leads into a conversation of stage lighting equipment and technicians. Lamps, luminaries, controls/dimming, and electricity form the basis of these chapters. The book also provides a detailed explanation and overview of the lighting design process for the theatre and several other traditional forms of entertainment. Finally, the book explores a variety of additional areas where lighting designers can find related future employment, such as concert and corporate lighting, themed design, architectural and landscape lighting, and computer animation. New for this edition: enlarged full-color illustrations, photographs, light plots and examples of lighting design; updated information on LED lighting and equipment; expanded discussion of the practical use of color as a designer; expanded discussion of psychological/perceptual effects of color; new discussion of color mixing through light sources that make use of additive mixing; expanded discussion of industry professions; expanded discussion and illustrations relating to photometrics; expanded discussion and examples of control protocols and new equipment; and updated designer profiles along with the addition of still more designer profiles. Stagecraft Fundamentals Second Edition tackles every aspect of theatre production with Emmy Award-winning author Rita Kogler Carver's signature witty and engaging voice. The history of stagecraft, safety precautions, lighting, costumes, scenery, career planning tips, and more are discussed, illustrated by beautiful color examples that display step-by-step procedures and the finished product. This second edition offers even more in-demand information on stage management, drawing and drafting (both by hand and CAD), lighting fixtures, and special effects. Also new to this edition are current articles from Lighting and Sound America, brand new diagrams that illustrate hard-to-grasp concepts, and a plethora of information on European conversions, standards, and practices, making the skills you learn applicable to stage jobs on either side of the ocean! The accompanying website, www.stagecraftfundamentals.com is bursting with additional material such as an instructor's manual, exercises and study questions that coincide with chapters from the book, CAD drawings, color theory, manufacturing information, and so much more to help you along the way as you learn all about the world of theatre production! Praise for the Book: Beautifully written! The author has succeeded in relaying technical theatre information without being too technical and putting the reader to sleep. I read three sentences and instantly knew this book was for me and the way I teach. When I think back on the insufferable intro to tech theatre books I had to read, I feel cheated I didn't have this one as a student. I will be using this text in my class! -- Rob Napoli, Designer and Technical Director at Penn State University, Berks Campus This text has tempted me to return to teaching with a textbook for the first time in seven years. The language is both accessible and informal yet the text goes a long way in debunking some of the typical jargon that may alienate students just getting into the field, or trying it out for the first time. The illustrations (the text is full of them) coupled with the stories reinforce the fundamental information being conveyed. -- John Paul Devlin, Associate Professor of Theatre at Saint Michael's College What a great idea! Thank heavens someone is doing this for students at that impressionable age. That has been one of my mantras - education of teachers and students on the use of scenic materials. The teachers don't have enough time in college to learn and do everything they have to teach. Most get thrown into the theatre area by default and struggle with designing/building/painting the scenery. -- Jenny Knott, Rosco Stagecraft Fundamentals is beautifully illustrated throughout, and the profusion of color on every page gives this textbook the appearance of a coffee table book. The writing is clear and personal, which should be very appealing to students. Rita Carver covers all aspects of theatre production from scenery, to lighting, to an actor's makeup. Her close ties to the New York theatre scene gives this book a special insight into the professional world, one that goes well beyond what is found in most college textbooks. -- John Holloway, Professor in the Theatre Department at the University of Kentucky and President of the International Association of Theatrical stage Employees (IATSE) Local 346. I can't thank you enough for Stagecraft Fundamentals. I have been teaching stagecraft since 1976 and you have saved me from the nightmare of writing a text to suit my class needs.... After two semesters with your text, I have found that I had more time to develop the skills necessary within the classroom than before. The humor that you have infused in the book has enticed my students to read on. That alone makes this text invaluable. --Meta Lasch, Assistant Professor, West Liberty University Written by an Emmy Award-winning designer Beautifully illustrate Written with the second-year engineering students of undergraduate level in mind, this well set out textbook explains the fundamentals of Fluid Mechanics. Written in question-answer form, the book is precise and easy to understand. The book presents an e Building on the success of the first Edition—the first pure textbook designed specifically for students on the subject—Fundamentals of Fingerprint Analysis, Second Edition provides an understanding of the historical background of fingerprint evidence, and follows it all the way through to illustrate how it is utilized in the courtroom. An essential learning tool for classes in fingerprinting and impression evidence—with each chapter building on the previous one using a pedagogical format—the book is divided into three sections. The first explains the history and theory of fingerprint analysis, fingerprint patterns and classification, and the concept of biometrics—the practice of using unique biological measurements or features to identify individuals. The second section discusses forensic light sources and physical and chemical processing methods. Section three covers fingerprint analysis with chapters on documentation, crime scene processing, fingerprint and palm print comparisons, and courtroom testimony. New coverage to this edition includes such topics as the biometrics and AFIS systems, physiology and embryology of fingerprint development in the womb, digital fingerprint record systems, new and emerging chemical reagents, varieties of fingerprint powders, and more. Fundamentals of Fingerprint Analysis, Second Edition stands as the most comprehensive introductory textbook on the market. Fundamentals of Ecosystem Science, Second Edition provides a comprehensive introduction to modern ecosystem science covering land, freshwater and marine ecosystems. Featuring full color images to support learning and written by a group of experts, this updated edition covers major concepts of ecosystem science, biogeochemistry, and energetics. Case studies of important environmental problems offer personal insights into how adopting an ecosystem approach has helped solve important intellectual and practical problems. For those choosing to use the book in a classroom environment, or who want to enrich further their reading experience, teaching and learning assets are available at Elsevier.com. Covers both aquatic (freshwater and marine) and terrestrial ecosystems with updated information Includes a new chapter on microbial biogeochemistry Features vignettes throughout the book with real examples of how an ecosystem approach has led to important change in policy, management, and ecological understanding Demonstrates the application of an ecosystem approach in synthesis chapters and case studies Contains new coverage of human-environment interactions This second edition of Water Activity in Foods furnishes those working within food manufacturing, quality control, and safety with a newly revised guide to water activity and its role in the preservation and processing of food items. With clear, instructional prose and illustrations, the book's international team of contributors break down the essential principles of water activity and water-food interactions, delineating water's crucial impact upon attributes such as flavor, appearance, texture, and shelf life. The updated and expanded second edition continues to offer an authoritative overview of the subject, while also broadening its scope to include six newly written chapters covering the latest developments in water activity research. Exploring topics ranging from deliquescence to crispness, these insightful new inclusions complement existing content that has been refreshed and reconfigured to support the food industry of today.

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