

Chapter 16 Wiley Solutions

Easily get started programming using the ultra-versatile C# 7 and Visual Studio 2017 Beginning C# 7 Programming with Visual Studio 2017 is the beginner's ultimate guide to the world's most popular programming language. Whether you're new to programming entirely, or just new to C#, there has never been a better time to get started. The new C# 7 and Visual Studio 2017 updates feature a number of new tools and features that streamline the workflow, simplify the code, and make it easier than ever to build high-quality apps. This book walks you through everything you need to know, starting from the very basics, to have you programming in no time. You'll learn about variables, flow control, and object oriented programming, then move into Web and Windows programming as well as databases and XML. The companion website provides downloadable code examples, and practical Try It Out sections provide explicit, step-by-step instructions for writing your own useful, customizable code. C# 7 can be used to build Windows applications, program Windows 10, and write Web apps when used alongside ASP.NET. With programming skills becoming de rigueur in fields far beyond the tech world, C# 7 is a great place to start building versatile, helpful skills. This book gets you started quickly and easily with instruction from a master-team of C# programmers. Learn how to program using the world's leading programming language Build smarter, faster apps using the latest features in C# 7 and Visual Studio 2017 Find and fix bugs sooner, saving headaches down the line Integrate with all .NET Core, Azure applications, cloud services, Docker containers, and more The world of programming can seem intimidating to a beginner, and the prospect of learning a whole new "language" can seem daunting. Beginning C# 7 Programming with Visual Studio 2017 demystifies the process and shows you how to bring your ideas to life.

The 10th edition of Halliday, Resnick and Walkers Fundamentals of Physics provides the perfect solution for teaching a 2 or 3 semester calculus-based physics course, providing instructors with a tool by which they can teach students how to effectively read scientific material, identify fundamental concepts, reason through scientific questions, and solve quantitative problems. The 10th edition builds upon previous editions by offering new features designed to better engage students and support critical thinking. These include NEW Video Illustrations that bring the subject matter to life, NEW Vector Drawing Questions that test students conceptual understanding, and additional multimedia resources (videos and animations) that provide an alternative pathway through the material for those who struggle with reading scientific exposition. WileyPLUS sold separately from text.

This book emphasises those features in solution chemistry which are difficult to measure, but essential for the understanding of both the qualitative and the quantitative aspects. Attention is paid to the mutual influences between solute and solvent, even at extremely small concentrations of the former. The described extension of the molecular concept leads to a broad view — not by a change in paradigm — but by finding the rules for the organizations both at the molecular and the supermolecular level of liquid and solid solutions. Contents:Development and Present StateAtoms and MoleculesChemical BondingInteractions between MoleculesThe Liquid StateAnomalous Physical Properties of Liquid WaterSome Trivia about WaterThe Phase Boundary of Liquid WaterWater in Biological SystemsHydrophobic Solutes in WaterHydrophilic Solutes in WaterWater and AlcoholsCharacterization of Non-Aqueous SolventsSolvation in Non-Aqueous SolventsIonization and Association in Non-Aqueous SolutionsQualitative Aspects of the Molecular ConceptSystem Organization of Liquid WaterChanges in Organization of Liquid WaterWater within the Human BodyOrganization in Non-Aqueous Solutions: Intramoleuclar System Organizations Readership: Students and scientists in chemistry, physics, biology, pharmacy and medicine. keywords:Solution Chemistry;Supermole;Liquid State;Hydrophobic Solutes;Hydrophilic Solutes;Ionization;Pharmacology;Liquid Properties;Solvents;Solvation "Wherever possible, the authors have tried to make the text readable by using interesting illustrations to explain the relevance of the concepts that they describe ... this book will be excellent supplementary reading for undergraduates and will also be good preliminary background reading for researchers new to the area." Chemistry in Britian

A comprehensive guide that offers a review of the current technologies that tackle CO2 emissions The race to reduce CO2 emissions continues to be an urgent global challenge. "Engineering Solutions for CO2 Conversion" offers a thorough guide to the most current technologies designed to mitigate CO2 emissions ranging from CO2 capture to CO2 utilization approaches. With contributions from an international panel representing a wide range of expertise, this book contains a multidisciplinary toolkit that covers the myriad aspects of CO2 conversion strategies. Comprehensive in scope, it explores the chemical, physical, engineering and economical facets of CO2 conversion. "Engineering Solutions for CO2 Conversion" explores a broad range of topics including linking CFD and process simulations, membranes technologies for efficient CO2 capture-conversion, biogas sweetening technologies, plasma-assisted conversion of CO2, and much more. This important resource: * Addresses a pressing concern of global environmental damage, caused by the greenhouse gases emissions from fossil fuels * Contains a review of the most current developments on the various aspects of CO2 capture and utilization strategies * Incldues information on chemical, physical, engineering and economical facets of CO2 capture and utilization * Offers in-depth insight into materials design, processing characterization, and computer modeling with respect to CO2 capture and conversion Written for catalytic chemists, electrochemists, process engineers, chemical engineers, chemists in industry, photochemists, environmental chemists, theoretical chemists, environmental officers, "Engineering Solutions for CO2 Conversion" provides the most current and expert information on the many aspects and challenges of CO2 conversion.

Get started with Visual C# programming with this great beginner's guide Beginning C# 6 Programming with Visual Studio 2015 provides step-by-step directions for programming with C# in the .NET framework. Beginning with programming essentials, such as variables, flow control, and object-oriented programming, this authoritative text moves into more complicated topics, such as web and Windows programming and data access within both database and XML environments. After your introduction to each of the chapters, you are invited to apply your newfound knowledge in Try it Out sections, which reinforce learning and help you understand the practical applications of the new concepts you have explored. Through this approach, you can write useful programming code following each of the steps that you explore in this essential text. Discover the basics of programming with C#, such as variables, expressions, flow control, and functions Discuss how to keep your program running smoothly through debugging and error handling Understand how to navigate your way through key programming elements, such as classes, class members, collections, comparisons, and conversions Explore object-oriented programming, web programming, and Windows programming Beginning C# 6 Programming with Visual Studio 2015 is a fundamental resource for any programmers who are new to the C# language.

Praise for the first edition: "This excellent text will be useful to every system engineer (SE) regardless of the domain. It covers ALL relevant SE material and does so in a very clear, methodical fashion. The breadth and depth of the author's presentation of SE principles and practices is outstanding." –Philip Allen This textbook presents a comprehensive, step-by-step guide to System Engineering analysis, design, and development via an integrated set of concepts, principles, practices, and methodologies. The methods presented in this text apply to any type of human system -- small, medium, and large organizational systems and system development projects delivering engineered systems or services across multiple business sectors such as medical, transportation, financial, educational, governmental, aerospace and defense, utilities, political, and charity, among others. Provides a common focal point for "bridging the gap" between and unifying System Users, System Acquirers, multi-discipline System Engineering, and Project, Functional, and Executive Management education, knowledge, and decision-making for developing systems, products, or services Each chapter provides definitions of key terms, guiding principles, examples, author's notes, real-world examples, and exercises, which highlight and reinforce key SE&D concepts and practices Addresses concepts employed in Model-Based Systems Engineering (MBSE), Model-Driven Design (MDD), Unified Modeling Language (UMLTM) / Systems Modeling Language (SysMLTM), and Agile/Spiral/V-Model Development such as user needs, stories, and use cases analysis; specification development; system architecture development; User-Centric System Design (UCSD); interface definition & control; system integration & test; and Verification & Validation (V&V) Highlights/introduces a new 21st Century Systems Engineering & Development (SE&D) paradigm that is easy to understand and implement. Provides practices that are critical staging points for technical decision making such as Technical Strategy Development; Life Cycle requirements; Phases, Modes, & States; SE Process; Requirements Derivation; System Architecture Development, User-Centric System Design (UCSD); Engineering Standards, Coordinate Systems, and Conventions; et al. Thoroughly illustrated, with end-of-chapter exercises and numerous case studies and examples, Systems Engineering Analysis, Design, and Development, Second Edition is a primary textbook for multi-discipline, engineering, system analysis, and project management undergraduate/graduate level students and a valuable reference for professionals.

Protect your organization from scandalously easy-to-hack MFA security "solutions" Multi-Factor Authentication (MFA) is spreading like wildfire across digital environments. However, hundreds of millions of dollars have been stolen from MFA-protected online accounts. How? Most people who use multifactor authentication (MFA) have been told that it is far less hackable than other types of authentication, or even that it is unhackable. You might be shocked to learn that all MFA solutions are actually easy to hack. That's right: there is no perfectly safe MFA solution. In fact, most can be hacked at least five different ways. Hacking Multifactor Authentication will show you how MFA works behind the scenes and how poorly linked multi-step authentication steps allows MFA to be hacked and compromised. This book covers over two dozen ways that various MFA solutions can be hacked, including the methods (and defenses) common to all MFA solutions. You'll learn about the various types of MFA solutions, their strengths and weaknesses, and how to pick the best, most defensible MFA solution for your (or your customers') needs. Finally, this book reveals a simple method for quickly evaluating your existing MFA solutions. If using or developing a secure MFA solution is important to you, you need this book. Learn how different types of multifactor authentication work behind the scenes See how easy it is to hack MFA security solutions—no matter how secure they seem Identify the strengths and weaknesses in your (or your customers') existing MFA security and how to mitigate Author Roger Grimes is an internationally known security expert whose work on hacking MFA has generated significant buzz in the security world. Read this book to learn what decisions and preparations your organization needs to take to prevent losses from MFA hacking.

This updated and expanded edition of the book includes four additional chapters on earthwork on sloping sites; transitional curves and super elevation; calculations of super elevations on composite curves; and underground mine surveying. Richly illustrated with diagrams, equations and tables as well as examples of every day survey tasks. It also covers new topics, such as the global navigation satellite system's (Real Time Kinematic-RTK), which are increasingly used in a wide range of everyday engineering applications.

Diderich describes tools and techniques, which can be used to develop quantitative models for actively managing investment products, and focuses on how theoretical models can and should be used in practice. He describes the interaction between different elements of an investment process's value chain in a single and consistent framework. A key focus is placed on illustrating the theory with real world examples. At the end of the book the reader will be capable of designing or enhancing an investment process for an investment or portfolio managers products from start to finish. * Increased pressure to add value through investments makes this a hot topic in the investment world * Combined theoretical and practical approach makes this book appealing to a wide audience of quants and investors * The only book to show how to design and implement quantitative models for gaining positive alpha

Veterinary Technician's Daily Reference Guide: Canine and Feline, Third Edition provides a quick reference to all aspects of a technician's daily responsibilities in clinical practice. Retaining the tabular format for easy access, the Third Edition adds more in-depth skill descriptions, allowing the technician to reach an even higher level of care. Coverage ranges from anatomy and preventative care to diagnostic and patient care skills, pain management, anesthesia, and pharmacology. Now fully revised and updated, the book is designed to build on a veterinary technician's current knowledge, acting as a quick refresher in the daily clinic setting. A companion website offers forms and worksheets, training materials, review questions, vocabulary flashcards, links to online resources, and the figures from the book in PowerPoint. The Third Edition is an invaluable practical resource for increasing confidence and improving technical skills for veterinary technicians.

Intermediate Accounting by Kieso, Weygandt, and Warfield is, quite simply, the standard by which all other intermediate texts are measured. Throughout the thirty years, and ten best-selling editions, the text has built a reputation for accuracy, comprehensiveness, and student success. This Updated Edition features and incorporates the 2005 FASB key accounting standards that have been updated since the original publication of "Intermediate Accounting, 11th Edition." The Updated Eleventh Edition maintains the qualities for which the text is globally recognized, and continues to be your students' gateway to the profession! Included in the package is the "Problem-Solving Survival Guide."

A guide to using MySQL covers such topics as accessing and manipulating data, managing security, importing and exporting data, and issuing SQL statements.

Many changes have been made in this edition, first to the nomenclature so that the book is in agreement with the International System of Units (S. I.) and secondly to the circuit diagrams so that they conform to B. S. S. 3939. The book has been enlarged

and now has 546 problems. Much more emphasis has been given to semiconductor devices and transistor circuits, additional topics and references for further reading have been introduced, some of the original problems and solutions have been taken out and several minor modifications and corrections have been made. It could be argued that thermionic-valve circuits should not have been mentioned since valves are no longer considered important by most electronic designers except possibly for very high power or voltage applications. Some of the original problems on valves and valve circuits have been retained, however, for completeness because the material is still present in many syllabuses and despite the advent and proliferation of solid-state devices in recent years the good old-fashioned valve looks like being in existence for a long time. There are still some topics readers may expect to find included which have had to be omitted; others have had less space devoted to them than one would have liked. A new feature of this edition is that some problems with answers, given at the end of each chapter, are left as student exercises so the solutions are not included. The author wishes to thank his colleagues Professor P. N.

The companion workbook to the Investment Management volume in the CFA Institute's Portfolio Management in Practice series provides students and professionals with essential practice regarding key concepts in the portfolio management process. Filled with stimulating exercises, this text is designed to help learners explore the multifaceted topic of investment management in a meaningful and productive way. The Investment Management Workbook is structured to further readers' hands-on experience with a variety of learning outcomes, summary overview sections, challenging practice questions, and solutions. Featuring the latest tools and information to help users become confident and knowledgeable investors, this workbook includes sections on professionalism in the industry, fintech, hedge fund strategies, and more. With the workbook, readers will learn to: Form capital market expectations Understand the principles of the asset allocation process Determine comprehensive investment strategies within each asset class Integrate considerations specific to high net worth individuals or institutions into the selection of strategies Execute and evaluate chosen strategies and investment managers Well suited for individuals who learn on their own, this companion resource delivers an example-driven method for practicing the tools and techniques covered in the primary Investment Management volume, incorporating world-class exercises based on actual scenarios faced by finance professionals every day.

A novel, practical introduction to functional analysis In the twenty years since the first edition of Applied Functional Analysis was published, there has been an explosion in the number of books on functional analysis. Yet none of these offers the unique perspective of this new edition. Jean-Pierre Aubin updates his popular reference on functional analysis with new insights and recent discoveries—adding three new chapters on set-valued analysis and convex analysis, viability kernels and capture basins, and first-order partial differential equations. He presents, for the first time at an introductory level, the extension of differential calculus in the framework of both the theory of distributions and set-valued analysis, and discusses their application for studying boundary-value problems for elliptic and parabolic partial differential equations and for systems of first-order partial differential equations. To keep the presentation concise and accessible, Jean-Pierre Aubin introduces functional analysis through the simple Hilbertian structure. He seamlessly blends pure mathematics with applied areas that illustrate the theory, incorporating a broad range of examples from numerical analysis, systems theory, calculus of variations, control and optimization theory, convex and nonsmooth analysis, and more. Finally, a summary of the essential theorems as well as exercises reinforcing key concepts are provided. Applied Functional Analysis, Second Edition is an excellent and timely resource for both pure and applied mathematicians.

Engineering Solutions for CO₂ Conversion John Wiley & Sons

The Wrox SharePoint 2010 SharePoint911 Three-Pack combines the contents of three full e-books written by the experts from SharePoint911. That's over 1800 pages of hands-on advice from Todd Klindt, Shane Young, Laura Rogers, Randy Drisgill, Jennifer Mason, John Ross, and Larry Riemann, among others. In *Beginning SharePoint 2010: Building Business Solutions with SharePoint* (ISBN 978-0-470-61789-2) by Amanda Perran, Shane Perran, Jennifer Mason, and Laura Rogers, readers learn the core concepts, terminology, and features of SharePoint 2010. In *Professional SharePoint 2010 Branding and User Interface Design* (ISBN 978-0-470-58464-4) by Randy Drisgill, John Ross, Jacob J. Sanford, Paul Stubbs, and Larry Riemann, the reader gets a deep dive into branding a SharePoint site. In the third book of the set, the SharePoint bestseller *Professional SharePoint 2010 Administration* (ISBN 978-0-470-53333-8) by Todd Klindt, Shane Young, and Steve Caravajal, the authors provide a detailed look at the administration tools available in SharePoint 2010.

Loss Models: From Data to Decisions, Fifth Edition continues to supply actuaries with a practical approach to the key concepts and techniques needed on the job. With updated material and extensive examples, the book successfully provides the essential methods for using available data to construct models for the frequency and severity of future adverse outcomes. The book continues to equip readers with the tools needed for the construction and analysis of mathematical models that describe the process by which funds flow into and out of an insurance system. Focusing on the loss process, the authors explore key quantitative techniques including random variables, basic distributional quantities, and the recursive method, and discuss techniques for classifying and creating distributions. Parametric, non-parametric, and Bayesian estimation methods are thoroughly covered along with advice for choosing an appropriate model.

Throughout the book, numerous examples showcase the real-world applications of the presented concepts, with an emphasis on calculations and spreadsheet implementation. *Loss Models: From Data to Decisions, Fifth Edition* is an indispensable resource for students and aspiring actuaries who are preparing to take the SOA and CAS examinations. The book is also a valuable reference for professional actuaries, actuarial students, and anyone who works with loss and risk models.

Intermediate Accounting: IFRS Edition provides the tools global accounting students need to understand IFRS and how it is applied in practice. The emphasis on fair value, the proper accounting for financial instruments, and the new developments related to leasing, revenue recognition, and financial statement presentation are examined in light of current practice. *Global Accounting Insights* highlight the important differences that remain between IFRS and U.S. GAAP, and discuss the ongoing joint convergence efforts to resolve them. Comprehensive, up-to-date, and accurate, *Intermediate Accounting: IFRS Edition* includes proven pedagogical tools, designed to help students learn more effectively and to answer the changing needs of this course.

An excellent resource for all graduate students and researchers using electrochemical techniques. After introducing the reader to the fundamentals, the book focuses on the latest developments in the techniques and applications in this field. This second edition contains new material on environmentally-friendly solvents, such as room-temperature ionic liquids. Many highly acclaimed and authoritative books on polymer science tend to focus on synthetic polymers. Cellulose and Cellulose Derivatives is the first authoritative book on the subject. It examines recent developments, with particular reference to cellulose (in aqueous alkali) and cellulose acetate. Packed with examples, the author takes an in-depth look at the topic, using the most reliable experimental data available. A comprehensive approach to the fundamental principles of cellulose and its derivatives in solution makes Cellulose and Cellulose Derivatives ideal reading for novices as well as experienced cellulose scientists. * Outlines the theoretical fundamentals of cellulose and cellulose derivatives * Presents comprehensive and reliable experimental results in figures and tables * Highly illustrated and easy to read Explores new applications emerging from our latest understanding of proteins in solution and at interfaces Proteins in solution and at interfaces increasingly serve as the starting point for exciting new applications, from biomimetic materials to nanoparticle patterning. This book surveys the state of the science in the field, offering investigators a current understanding of the characteristics of proteins in solution and at interfaces as well as the techniques used to study these characteristics. Moreover, the authors explore many of the new and emerging applications that have resulted from the most recent studies. Topics include protein and protein aggregate structure; computational and experimental techniques to study protein structure, aggregation, and adsorption; proteins in non-standard conditions; and applications in biotechnology. Proteins in Solution and at Interfaces is divided into two parts: Part One introduces concepts as well as theoretical and experimental techniques that are used to study protein systems, including X-ray crystallography, nuclear magnetic resonance, small angle scattering, and spectroscopic methods Part Two examines current and emerging applications, including nanomaterials, natural fibrous proteins, and biomolecular thermodynamics The book's twenty-three chapters have been contributed by leading experts in the field. These contributions are based on a thorough review of the latest peer-reviewed findings as well as the authors' own research experience. Chapters begin with a discussion of core concepts and then gradually build in complexity, concluding with a forecast of future developments. Readers will not only gain a current understanding of proteins in solution and at interfaces, but also will discover how theoretical and technical developments in the field can be translated into new applications in material design, genetic engineering, personalized medicine, drug delivery, biosensors, and biotechnology.

In this fully revised and updated Second Edition of Fixed Income Analysis, readers will be introduced to a variety of important fixed income analysis issues, including the general principles of credit analysis, term structure and volatility of interest rates, and valuing bonds with embedded options.

An up-to-date guide for using massive amounts of data and novel technologies to design, build, and maintain better systems engineering Systems Engineering in the Fourth Industrial Revolution: Big Data, Novel Technologies, and Modern Systems Engineering offers a guide to the recent changes in systems engineering prompted by the current challenging and innovative industrial environment called the Fourth Industrial Revolution—INDUSTRY 4.0. This book contains advanced models, innovative practices, and state-of-the-art research findings on systems engineering. The contributors, an international panel of experts on the topic, explore the key elements in systems engineering that have shifted towards data collection and analytics, available and used in the design and development of systems and also in the later life-cycle stages of use and retirement. The contributors address the issues in a system in which the system involves data in its operation, contrasting with earlier approaches in which data, models, and algorithms were less involved in the function of the system. The book covers a wide range of topics including five systems engineering domains: systems engineering and systems thinking; systems software and process engineering; the digital factory; reliability and maintainability modeling and analytics; and organizational aspects of systems engineering. This important resource: Presents new and advanced approaches, methodologies, and tools for designing, testing, deploying, and maintaining advanced complex systems Explores effective evidence-based risk management practices Describes an integrated approach to safety, reliability, and cyber security based on system theory Discusses entrepreneurship as a multidisciplinary system Emphasizes technical merits of systems engineering concepts by providing technical models Written for systems engineers, Systems Engineering in the Fourth Industrial Revolution offers an up-to-date resource that contains the best practices and most recent research on the topic of systems engineering.

A UNIQUE BOOK ON THE PRESENT STATUS OF SOLVENTS AND SOLUTIONS WITH IMPORTANT PROBLEMS RELATED TO THEIR STRUCTURE AND PROPERTIES The literature on the properties of solvents and solutions used in academic research and in a wide range of industries has grown enormously during the last four decades, and is scattered in different specialized journals. Solvents and Solutions is a groundbreaking text that offers a systematic compilation of important problems related to selected properties of solvents and solutions based on the literature published so far. The author places emphasis on explaining the basic concepts involved in understanding the properties and behavior of various solvents and solutions of electrolytes and nonelectrolytes in a consistent manner. After a description of the general characteristics of structure of solvents and solutions and the solubility of electrolytes and nonelectrolytes under normal temperature and pressure conditions, the book first deals with different aspects of the density and the refractive index of solvents and dilute as well as concentrated solutions, and finally with the transport (i.e. viscosity and electric conductivity) and thermal properties of solvents and solutions. Solvents and solutions is the first text devoted to the description and discussion of their properties since the publication of a monograph on the physical properties of aqueous electrolyte solutions more than three decades ago. The main features of this book are: Reflects developments in the investigation of solvents and solutions during the last three decades. Outlines basic concepts involved in understanding the properties and behavior of solvents and solutions. Describes and discusses different properties of ionic liquids as solvents and the behavior of their mixtures with other commonly used solvents. Contents of different chapters are not only self-contained but the contents are practically independent of each other. Written as a practical guide for researchers who are looking

for an up-to-date overview of the physical and transport properties of solvents and solutions, and as a reference source for workers in chemical industries and related fields and for graduate students of chemical engineering and physical chemistry.

The Kieso, Weygandt, Warfield, Young, Wiecek: Intermediate Accounting text has an outstanding reputation as "THE" text for the course and is viewed as a reliable resource by accounting students, faculty and professionals. After listening carefully to instructors and students alike, and after having built on what we have learned over eight successful editions and more than 25 years of being the market leader, we are confident that the Ninth Edition is the best one yet! The integration of the new International Accounting Standards and their comparison with the new Private Entity GAAP, enhances the main goal of the book "to help students understand, prepare and use financial information by linking education with the 'real-world' accounting environment". Our industry-experienced and leading-edge author expertise in the field of IFRS, combined with an update of the text's technical content ensures that accounting faculty and students can continue to rely on Kieso, especially during a time of change. Even though the rapidly changing landscape of Canadian and international accounting is a focus of the text, the authors continue their emphasis on helping students understand the core concepts that are at the heart of the accounting profession. The chapters are interesting, informative and pedagogically sound. Clear explanations of important issues, concepts, and business transactions are provided, followed by examples of how these are applied in practice. Interesting examples show how the resulting numbers are used, and how "real life" Canadian companies actually account for and report their accounting transactions and results.

The landmark guide to play therapy—completely updated and revised Edited by Charles E. Schaefer—the "father of play therapy"—Foundations of Play Therapy, Second Edition is a complete, state-of-the-art guide to the many diverse approaches to, and methods used in, play therapy practice with children and adolescents. Featuring an expert panel of contributors, this comprehensive reference provides up-to-date and insightful coverage of all of the major theoretical models of play therapy and offers practical examples for the application of each model, including: Narrative play therapy Solution-focused play therapy Experiential play therapy Release play therapy Integrative play therapy Psychoanalytic approaches to play therapy Child-centered play therapy Gestalt play therapy Family play therapy Cognitive behavioral play therapy Prescriptive play therapy Written for therapists looking for guidance on how to incorporate play therapy into their practice, as well as students or those in need of a refresher on the latest methods and techniques, Foundations of Play Therapy, Second Edition is a standard-setting resource presenting pragmatic and useful information for therapists at all levels of training.

Authoritative and comprehensive coverage for building Access 2013 Solutions Access, the most popular database system in the world, just opened a new frontier in the Cloud. Access 2013 provides significant new features for building robust line-of-business solutions for web, client and integrated environments. This book was written by a team of Microsoft Access MVPs, with consulting and editing by Access experts, MVPs and members of the Microsoft Access team. It gives you the information and examples to expand your areas of expertise and immediately start to develop and upgrade projects. Explores the new development environment for Access web apps Focuses on the tools and techniques for developing robust web applications Demonstrates how to monetize your apps with Office Store and create e-commerce solutions Explains how to use SQL Server effectively to support both web and client solutions Provides techniques to add professional polish and deploy desktop application Shows you how to automate other programs using Macros, VBA, API calls and more. Professional Access 2013 Programming is a complete guide on the latest tools and techniques for building Access 2013 applications for both the web and the desktop so that developers and businesses can move forward with confidence. Whether you want to add expand your expertise with Client/Server deployments or start developing web apps, you will want this book as a companion and reference.

The first concern of scientists who are interested in synthetic polymers has always been, and still is: How are they synthesized? But right after this comes the question: What have I made, and for what is it good? This leads to the important topic of the structure-property relations to which this book is devoted. Polymers are very large and very complicated systems; their characterization has to begin with the chemical composition, configuration, and conformation of the individual molecule. The first chapter is devoted to this broad objective. The immediate physical consequences, discussed in the second chapter, form the basis for the physical nature of polymers: the supermolecular interactions and arrangements of the individual macromolecules. The third chapter deals with the important question: How are these chemical and physical structures experimentally determined? The existing methods for polymer characterization are enumerated and discussed in this chapter. The following chapters go into more detail. For most applications—textiles, films, molded or extruded objects of all kinds—the mechanical and the thermal behaviors of polymers are of preponderant importance, followed by optical and electric properties. Chapters 4 through 9 describe how such properties are rooted in and dependent on the chemical structure. More-detailed considerations are given to certain particularly important and critical properties such as the solubility and permeability of polymeric systems. Macromolecules are not always the final goal of the chemist—they may act as intermediates, reactants, or catalysts. This topic is presented in Chapters 10 and 11.

The revised and updated new edition of the popular optimization book for engineers The thoroughly revised and updated fifth edition of Engineering Optimization: Theory and Practice offers engineers a guide to the important optimization methods that are commonly used in a wide range of industries. The author—a noted expert on the topic—presents both the classical and most recent optimizations approaches. The book introduces the basic methods and includes information on more advanced principles and applications. The fifth edition presents four new chapters: Solution of Optimization Problems Using MATLAB; Metaheuristic Optimization Methods; Multi-Objective Optimization Methods; and Practical Implementation of Optimization. All of the book's topics are designed to be self-contained units with the concepts described in detail with derivations presented. The author puts the emphasis on computational aspects of optimization and includes design examples and problems representing different areas of engineering. Comprehensive in scope, the book contains solved examples, review questions and problems. This important book: Offers an updated edition of the classic work on optimization Includes approaches that are appropriate for all branches of engineering Contains numerous practical design and engineering examples Offers more than 140 illustrative examples, 500 plus references in the literature of engineering optimization, and more than 500 review questions and answers Demonstrates the use of MATLAB for solving different types of optimization problems using different techniques Written for students across all engineering disciplines, the revised edition of Engineering Optimization: Theory and Practice is the comprehensive book that covers the new and recent methods of optimization and reviews the principles and applications.

Discover the security risks that accompany the widespread adoption of new medical devices and how to mitigate them In Do No Harm: Protecting Connected Medical Devices, Healthcare, and Data from Hackers and Adversarial Nation States, cybersecurity

expert Matthew Webster delivers an insightful synthesis of the health benefits of the Internet of Medical Things (IoMT), the evolution of security risks that have accompanied the growth of those devices, and practical steps we can take to protect ourselves, our data, and our hospitals from harm. You'll learn how the high barriers to entry for innovation in the field of healthcare are impeding necessary change and how innovation accessibility must be balanced against regulatory compliance and privacy to ensure safety. In this important book, the author describes: The increasing expansion of medical devices and the dark side of the high demand for medical devices The medical device regulatory landscape and the dilemmas hospitals find themselves in with respect medical devices Practical steps that individuals and businesses can take to encourage the adoption of safe and helpful medical devices or mitigate the risk of having insecure medical devices How to help individuals determine the difference between protected health information and the information from health devices--and protecting your data How to protect your health information from cell phones and applications that may push the boundaries of personal privacy Why cybercriminals can act with relative impunity against hospitals and other organizations Perfect for healthcare professionals, system administrators, and medical device researchers and developers, Do No Harm is an indispensable resource for anyone interested in the intersection of patient privacy, cybersecurity, and the world of Internet of Medical Things.

Presents a novel approach to the statistical design of experiments, offering a simple way to specify and evaluate all possible designs without restrictions to classes of named designs. The work also presents a scientific design method from the recognition stage to implementation and summarization.

Conquer Algebra I with these key lessons, practice problems, and easy-to-follow examples. Algebra can be challenging. But you no longer need to be vexed by variables. With U Can, studying the key concepts from your class just got easier than ever before. Simply open this book to find help on all the topics in your Algebra I class. You'll get clear content review, step-by-step examples, and hundreds of practice problems to help you really understand and retain each concept. Stop feeling intimidated and start getting higher scores in class. All your course topics broken down into individual lessons Step-by-step example problems in every practice section Hundreds of practice problems allow you to put your new skills to work immediately FREE online access to 1,001 MORE Algebra I practice problems

Fundamentals of Ship Hydrodynamics: Fluid Mechanics, Ship Resistance and Propulsion Lothar Birk, University of New Orleans, USA Bridging the information gap between fluid mechanics and ship hydrodynamics Fundamentals of Ship Hydrodynamics is designed as a textbook for undergraduate education in ship resistance and propulsion. The book provides connections between basic training in calculus and fluid mechanics and the application of hydrodynamics in daily ship design practice. Based on a foundation in fluid mechanics, the origin, use, and limitations of experimental and computational procedures for resistance and propulsion estimates are explained. The book is subdivided into sixty chapters, providing background material for individual lectures. The unabridged treatment of equations and the extensive use of figures and examples enable students to study details at their own pace. Key features: • Covers the range from basic fluid mechanics to applied ship hydrodynamics. • Subdivided into 60 succinct chapters. • In-depth coverage of material enables self-study. • Around 250 figures and tables. Fundamentals of Ship Hydrodynamics is essential reading for students and staff of naval architecture, ocean engineering, and applied physics. The book is also useful for practicing naval architects and engineers who wish to brush up on the basics, prepare for a licensing exam, or expand their knowledge.

Now in an accessible paperback edition, this classic work is just as relevant as when it first appeared in 1974, due to the increased use of nonlinear waves. It covers the behavior of waves in two parts, with the first part addressing hyperbolic waves and the second addressing dispersive waves. The mathematical principles are presented along with examples of specific cases in communications and specific physical fields, including flood waves in rivers, waves in glaciers, traffic flow, sonic booms, blast waves, and ocean waves from storms.

Apple's iPad is the ultimate consumer device for media consumption and communication. This book will help you jumpstart your iPad development. It covers topics progressively so you learn without being overwhelmed by details. Adopting the philosophy that the best way to learn is by doing, the book has numerous Try It Out sections that first show you how to build something and then explain how things work. To truly benefit from this book, you should have some background in programming and at least be familiar with object-oriented programming concepts.

Ultrasonics

"The reader is presented with a variety of solutions to common and not so common environmental problems which lay the groundwork for environmental advocates to decide which solutions will work best for their particular circumstances. This book discusses chemical, biological, physical, forensic, medical, international, economic, political, industrial-collaborative solutions and solutions for rural and developing countries giving readers the freedom to evaluate a variety of options and make informed decisions. End of chapter questions and additional resources are included making this an invaluable teaching tool and ideal reference for those currently involved in improving and preserving our environment."--BOOK JACKET.

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