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Discover why housestaff and faculty worldwide depend on this best-selling medical text - both in print and eBook format! Concise, user-friendly, and now available with a handy spiral binding, The Washington Manual® of Medical Therapeutics, 35th Edition, focuses on the essential information you need to know for successful patient care. Written by residents who are assisted by faculty co-authors and an outstanding editorial team, this must-have reference presents brief, logical approaches to diagnosis and management of commonly encountered medical conditions, including new therapies that improve patient outcomes. Thoroughly updated throughout, the 35th Edition provides a clear view of the challenges faced by residents, interns, medical students, and other practitioners, plus offers practical solutions, and expert guidance - all in one convenient and easily accessible source. Features: New spiral binding allows The Manual to lie flat for easy, hands-free access. Thoroughly updated to reflect the increasing and ever-changing advances in medical technology and therapeutics. Comprehensive coverage addresses all areas of medicine and the core subspecialties, including neurology and toxicology content available online. Concise, practical format features a brief discussion of pathophysiology, an evidence-based presentation of current therapies, and need-to-know diagnostic and therapeutic guidance from global experts. Easy-to-follow guidelines, diagrams, and algorithms assist in the diagnosis, investigation, and management of frequently encountered medical conditions. Edited by Internal Medicine Chief Residents from the Washington University School of Medicine and Barnes-Jewish Hospital in St. Louis.

With an emphasis on preparing and filing claims electronically, Health Insurance Today, 4th Edition features completely updated content on ICD-10 coding, ARRA, HI-TECH, Version 5010, electronic health records, the Health Insurance Reform Act, and more. The friendly writing style and clear learning objectives help you understand and retain important information, with review questions and activities that encourage critical thinking and practical application of key concepts. Clear, attainable learning objectives help you focus on the most important information. What Did You Learn? review questions allow you to ensure you understand the material already presented before moving on to the next section. Direct, conversational writing style makes reading fun and concepts easier to understand. Imagine This! scenarios help you understand how information in the book applies to real-life situations. Stop and Think exercises challenge you to use your critical thinking skills to solve a problem or answer a question. HIPAA Tips emphasize the importance of privacy and following govern-

ment rules and regulations. Chapter summaries relate to learning objectives, provide a thorough review of key content, and allow you to quickly find information for further review. Key coverage of new topics includes medical identity theft and prevention, National Quality Forum (NQF) patient safety measures, ACSX12 Version 5010 HIPAA transaction standards, EMS rule on mandatory electronic claims submission, and standards and implementation specifications for electronic health record technology. Increased emphasis on producing and submitting claims electronically gives you an edge in today's competitive job market. UPDATED! Additional ICD-10 coding content prepares you for the upcoming switch to the new coding system. NEW! Content on ARRA, HI-TECH, and the Health Insurance Reform Act ensures you are familiar with the latest health care legislation and how it impacts what you do on the job.

Zur Durchführung eines gemischten Hard- und Softwareprojektes mit Mikrocontrollern ist fundiertes Wissen über die Hardwareeinheiten des Controllers unabdingbar. Ebenso notwendig ist die Kenntnis von Sprachen auf zwei Ebenen - C für die große Struktur der Firmware und Assembler für zeit- oder ressourcenkritische oder hardwarenahe Codeabschnitte. Das Buch stellt die notwendigen Grundlagen für erfahrene Entwickler bereit, um eigene Projekte mit Mikrocontrollern realisieren zu können. Als Grundlage dient der 8 bit-Mikrocontroller ATmega16 als typischer Vertreter der megaAVR® Mikrocontroller der Firma Atmel®. Das Buch stellt Aufbau und Hardwarebaugruppen des ATmega16 stellvertretend für alle megaAVR®-Mikrocontroller und ihre Ansteuerung über Register detailliert vor und liefert Lösungsansätze für typische Problemstellungen aus dem Umfeld der Embedded-Entwicklung wie Messung von Zeit, Frequenz und Geschwindigkeit, Steuerungen, Ereignisbehandlung und asynchrone Programmierung sowie Kommunikation über SPI, TWI oder serielle Schnittstelle. Beispiele wie mikrosekundengenaue Stoppuhren, Fahrradtachometer oder Frequenzzähler illustrieren die Verfahren. Zu jedem Problem ist neben der Schaltung das vollständige Program in C oder - wenn sinnvoll - Assembler gezeigt. Neben Hard- und Softwareentwicklung wird auch die praktische Arbeit mit Atmel Studio® beleuchtet, wie das On-Chip-Debugging und ein Entwicklungszyklus (Editieren, Compilern und Linken, Flashen). Darüber hinaus werden im Rahmen von Projekten wie DDS-Synthese oder Analog-Datenlogger typische Peripheriebausteine (Echtzeituhren RTC, Digital-Analog-Wandler DAC, serielle EEPROMs) vorgestellt.

This book presents a comprehensive, ordered relationship between malfunctions and symptoms occurring in large turbogenerators. With this book, the operator and/or engineer in a generating station could identify underlying causes of a developing component degradation or a failure quicker,

which could potentially save both time and money and reduce the trial-and-error troubleshooting process. Large turbogenerators are the most important source of electricity. They can be found in thousands of power stations in every country. Forced outages, failures and degradation of these very expensive machines have an enormous aggregate cost to society. As such, any tool that can ameliorate loss of production by shaving time from troubleshooting activities, and avoiding unnecessary costs by detecting and promptly responding to component degradation, represents a step forward.

With an emphasis on preparing and filing claims electronically, *Health Insurance Today*, 4th Edition features completely updated content on ICD-10 coding, ARRA, HI-TECH, Version 5010, electronic health records, the Health Insurance Reform Act, and more. The friendly writing style and clear learning objectives help you understand and retain important information, with review questions and activities that encourage critical thinking and practical application of key concepts. Clear, attainable learning objectives help you focus on the most important information. What Did You Learn? review questions allow you to ensure you understand the material already presented before moving on to the next section. Direct, conversational writing style makes reading fun and concepts easier to understand. Imagine This! scenarios help you understand how information in the book applies to real-life situations. Stop and Think exercises challenge you to use your critical thinking skills to solve a problem or answer a question. HIPAA Tips emphasize the importance of privacy and following government rules and regulations. Chapter summaries relate to learning objectives, provide a thorough review of key content, and allow you to quickly find information for further review. Key coverage of new topics includes medical identity theft and prevention, National Quality Forum (NQF) patient safety measures, ACSX12 Version 5010 HIPAA transaction standards, EMS rule on mandatory electronic claims submission, and standards and implementation specifications for electronic health record technology. Increased emphasis on producing and submitting claims electronically gives you an edge in today's competitive job market. UPDATED! Additional ICD-10 coding content prepares you for the upcoming switch to the new coding system. NEW! Content on ARRA, HI-TECH, and the Health Insurance Reform Act ensures you are familiar with the latest health care legislation and how it impacts what you do on the job.

Cardiology fellows, residents, and practitioners will find this manual, which fits conveniently into a lab coat pocket, an indispensable guide to common clinical syndromes in cardiology. Emphasizing diagnosis, therapy, and the technical aspects of the field, it follows an outline format and contains brief overviews of the various procedures used in the care of cardiac patients.

This practical handbook of medical practice has been updated and revised to take into account the modern developments in clinical medicine. It has new chapters on oncology and radiology. The main focus is on clinical management, although disease background

BeagleBone Black is a low-cost, open hardware computer uniquely suited to interact with sensors and actuators directly and over the Web. Introduced in April 2013 by BeagleBoard.org, a community of developers first established in early 2008, BeagleBone Black is used frequently to build vision-enabled robots, home automation systems, artistic lighting systems, and countless other do-it-yourself and professional projects. BeagleBone variants include the original BeagleBone and the newer BeagleBone Black, both hosting a powerful 32-bit, super-scalar ARM Cortex A8 processor capable of run-

ning numerous mobile and desktop-capable operating systems, typically variants of Linux including Debian, Android, and Ubuntu. Yet, BeagleBone is small enough to fit in a small mint tin box. The "Bone" may be used in a wide variety of projects from middle school science fair projects to senior design projects to first prototypes of very complex systems. Novice users may access the power of the Bone through the user-friendly BoneScript software, experienced through a Web browser in most major operating systems, including Microsoft Windows, Apple Mac OS X, or the Linux operating systems. Seasoned users may take full advantage of the Bone's power using the underlying Linux-based operating system, a host of feature extension boards (Capes) and a wide variety of Linux community open source libraries. This book provides an introduction to this powerful computer and has been designed for a wide variety of users including the first time novice through the seasoned embedded system design professional. The book contains background theory on system operation coupled with many well-documented, illustrative examples. Examples for novice users are centered on motivational, fun robot projects while advanced projects follow the theme of assistive technology and image-processing applications.

Rather than yet another project-based workbook, *Arduino: A Technical Reference* is a reference and handbook that thoroughly describes the electrical and performance aspects of an Arduino board and its software. This book brings together in one place all the information you need to get something done with Arduino. It will save you from endless web searches and digging through translations of datasheets or notes in project-based texts to find the information that corresponds to your own particular setup and question. Reference features include pinout diagrams, a discussion of the AVR microcontrollers used with Arduino boards, a look under the hood at the firmware and run-time libraries that make the Arduino unique, and extensive coverage of the various shields and add-on sensors that can be used with an Arduino. One chapter is devoted to creating a new shield from scratch. The book wraps up with detailed descriptions of three different projects: a programmable signal generator, a "smart" thermostat, and a programmable launch sequencer for model rockets. Each project highlights one or more topics that can be applied to other applications.

A friendly, hands-on training manual and reference for lighting technicians in motion picture and television production, this handbook is the most comprehensive guide to set lighting available. It provides a unique combination of practical detail with a big-picture understanding of lighting, technology, safety, and professionalism, essential to anyone doing motion picture lighting. The fifth edition delves into every aspect of lighting and features vastly expanded sections on controlling LED lights, color science, lighting control systems, wireless systems, Ethernet-based control systems, battery power, and modern set protocol for productions small and large. With a generous number of original images, the book illustrates the use of soft light, the effect of lighting angles, and how the gaffer and DP build an effective lighting plan around the blocking of the actors. This encyclopedic volume of technical knowhow is tempered with years of practical experience and a much-needed sense of humor. This is the ideal text for professional lighting technicians across film and television including lighting directors, gaffers, DOPs, and rigging crews, as well as film and television production students studying lighting, camera techniques, film production, and cinematography. It includes a revamped companion website with supplementary resources, forms, checklists, and images.

English summary: Cyber attacks are not only a relatively new phenomenon, but also raise serious technical and legal concerns. Usually the victim does not possess any information about the origin of the attacker and/or the attack. Sven-Hendrik Schulze reveals whether, and if so how, the concept of state responsibility applies in such situations of uncertainty, and, if this concept is reaching its limits, which alternative measures should be taken in the future. German description: Cyber-Angriffe sind ein Kind des Informationszeitalters, ein Resultat enormer Abhängigkeiten und globaler Vernetzung, eine Konsequenz zunehmender finanzieller sowie technologischer Kluftbildung zwischen den Staaten und eine Folge freier Verfügbarkeit. Kurzum: die Angriffsform der heutigen Zeit. Zentrales Problem aus Sicht der Opfer, seien es Staaten, Unternehmen oder anderweitige Akteure, ist die sich in der Regel erfolglos gestaltende Rückverfolgung dieser Angriffe. Sven-Hendrik Schulze untersucht, ob und gegebenenfalls wie das traditionelle Konzept der Staatenverantwortlichkeit in diesen Situationen des Nicht-Wissens Anwendung findet. Sollten diese althergebrachten Regeln an ihre Grenzen stoßen, so zeigt er auf, welche alternativen Massnahmen in Zukunft auf internationaler, regionaler und nationaler Ebene durch die Staaten getroffen werden sollten.

Special edition of the Federal Register, containing a codification of documents of general applicability and future effect ... with ancillaries.

Includes list of replacement pages.

Power Plant Instrumentation and Control Handbook, Second Edition, provides a contemporary resource on the practical monitoring of power plant operation, with a focus on efficiency, reliability, accuracy, cost and safety. It includes comprehensive listings of operating values and ranges of parameters for temperature, pressure, flow and levels of both conventional thermal power plant and combined/cogen plants, supercritical plants and once-through boilers. It is updated to include tables, charts and figures from advanced plants in operation or pilot stage. Practicing engineers, freshers, advanced students and researchers will benefit from discussions on advanced instrumentation with specific reference to thermal power generation and operations. New topics in this updated edition include plant safety lifecycles and safety integrity levels, advanced ultra-supercritical plants with advanced firing systems and associated auxiliaries, integrated gasification combined cycle (IGCC) and integrated gasification fuel cells (IGFC), advanced control systems, and safety lifecycle and safety integrated systems. Covers systems in use in a wide range of power plants: conventional thermal power plants, combined/cogen plants, supercritical plants, and once through boilers Presents practical design aspects and current trends in instrumentation Discusses why and how to change control strategies when systems are updated/changed Provides instrumentation selection techniques based on operating parameters. Spec sheets are included for each type of instrument Consistent with current professional practice in North America, Europe, and India All-new coverage of Plant safety lifecycles and Safety Integrity Levels Discusses control and instrumentation systems deployed for the next generation of A-USC and IGCC plants

Offshore Electrical Engineering Manual, Second Edition, is for electrical engineers working on offshore projects who require detailed knowledge of an array of equipment and power distribution systems. The book begins with coverage of different types of insulation, hot-spot temperatures, temperature rise, ambient air temperatures, basis of machine ratings, method of measurement of tem-

perature rise by resistance, measurement of ambient air temperature. This is followed by coverage of AC generators, automatic voltage regulators, AC switchgear transformers, and programmable electronic systems. The emphasis throughout is on practical, ready-to-apply techniques that yield immediate and cost-effective benefits. The majority of the systems covered in the book operate at a nominal voltage of 24 y dc and, although it is not necessary for each of the systems to have separate battery and battery charger systems, the grouping criteria require more detailed discussion. The book also provides information on equipment such as dual chargers and batteries for certain vital systems, switchgear tripping/closing, and engine start batteries which are dedicated to the equipment they supply. In the case of engines which drive fire pumps, duplicate charges and batteries are also required. Packed with charts, tables, and diagrams, this work is intended to be of interest to both technical readers and to general readers. It covers electrical engineering in offshore situations, with much of the information gained in the North Sea. Some topics covered are offshore power requirements, generator selection, process drivers and starting requirements, control and monitoring systems, and cabling and equipment installation Discusses how to perform inspections of electrical and instrument systems on equipment using appropriate regulations and specifications Explains how to ensure electrical systems/components are maintained and production is uninterrupted Demonstrates how to repair, modify, and install electrical instruments ensuring compliance with current regulations and specifications Covers specification, management, and technical evaluation of offshore electrical system design Features evaluation and optimization of electrical system options including DC/AC selection and offshore cabling designs

The stability of rock slopes is an important issue in both civil and mining engineering. On civil projects, rock cuts must be safe from rock falls and large-scale slope instability during both construction and operation. In open pit mining, where slope heights can be many hundreds of meters, the economics of the operation are closely related to the steepest stable slope angle that can be mined. This extensively updated version of the classic text, Rock Slope Engineering by Hoek and Bray, deals comprehensively with the investigation, design and operation of rock slopes. Investigation methods include the collection and interpretation of geological and groundwater data, and determination of rock strength properties, including the Hoek Brown rock mass strength criterion. Slope design methods include the theoretical basis for the design of plane, wedge, circular and toppling failures, and design charts are provided to enable rapid checks of stability to be carried out. New material contained in this book includes the latest developments in earthquake engineering related to slope stability, probabilistic analysis, numerical analysis, blasting, slope movement monitoring and stabilization methods. The types of stabilization include rock anchors, shotcrete, drainage and scaling, as well as rock fall protecting methods involving barriers, ditches, nets and sheds. Rock Slopes: Civil and Mining Engineering contains both worked examples illustrating data interpretation and design methods, and chapters on civil and mining case studies. The case studies demonstrate the application of design methods to the construction of stable slopes in a wide variety of geological conditions. The book provides over 300 carefully selected references for those who wish to study the subject in greater detail. It also includes an introduction by Dr. Evert Hoek.

This exceptionally comprehensive text makes it easy to find the information you need on the full range of laboratory tests and diagnostic procedures encountered in nursing! A body system organiza-

tion affords you a more user-friendly alternative to the alphabetical and laboratory-area approaches used in other references. A consistent presentation offers convenient referral to background information, the significance of normal/abnormal test results, and appropriate nursing care of the patient for each test and procedure. Quality control guidelines address procedural issues that affect the accuracy of test results. Normal values are highlighted in special boxes for easy identification. For each test and procedure, these values are listed in both conventional measures and Systeme International (SI) units. Where relevant, these values provide variations for gender and age, including children and older adults. Unique potential complications tables address complications and related nursing assessments for more complex procedures like cardiac catheterization and liver biopsy. Critical thinking margin notes call your attention to the individuality of patients and the specific issues and nursing care considerations that apply to each situation. Outstanding two-color artwork vividly illustrates all concepts and techniques. From the basics, such as CBC, urinalysis, and CT scans, to more complex procedures used in specialty areas - including ERCP, cardiocentesis, cardiac stress tests, and endocrine tests - you'll know exactly what to do... and what the results mean.

Inside the Fourth Edition of the Manual of Cardiovascular Medicine, you'll find practical and effective approaches to common clinical syndromes--including clear guidance on administration of commonly prescribed medications and descriptions of proven therapeutic procedures. This best selling manual's concise outline format and colorful design make essential facts easy to find. An ideal reference for the resident, fellow, practicing cardiologist, or nurse-practitioner treating patients with cardiovascular disease. Skill-building features include... * Authoritative perspectives let you benefit from the experienced staff and fellows at the Cleveland Clinic * Concise overview of cardiology helps build a firm grasp of fundamental cardiovascular anatomy, physiology, and pathology * Comprehensive section on cardiovascular procedures includes expert tips for improving performance and outcomes *

Evidence-based approach to diagnosis and management explains the 'how' and 'why' behind critical decisions * Suggested reading at the end of each chapter provides guideposts for further investigation NEW to the 4th Edition... * Examples added of key electrocardiographic tracings for quick reference * New chapters cover diabetes and cardiovascular disease, pulmonary hypertension, systemic disease and the heart, management of TAVR patients, and troubleshooting LVADs * Updated content reflects the latest advances in cardiovascular medicine--including percutaneous aortic valve replacement and left ventricular assist device management * Quick-reference list of common formulae helps you find vital information in seconds

This book is a comprehensive and richly-illustrated guide to cardiac CT, its current state, applications, and future directions. While the first edition of this text focused on what was then a novel instrument looking for application, this edition comes at a time where a wealth of guideline-driven, robust, and beneficial clinical applications have evolved that are enabled by an enormous and ever growing field of technology. Accordingly, the focus of the text has shifted from a technology-centric to a more patient-centric appraisal. While the specifications and capabilities of the CT system itself remain front and center as the basis for diagnostic success, much of the benefit derived from cardiac CT today comes from avant-garde technologies enabling enhanced visualization, quantitative imaging, and functional assessment, along with exciting deep learning, and artificial intelligence applications. Cardiac CT is no longer a mere tool for non-invasive coronary artery stenosis detection in the chest pain diagnostic algorithms; cardiac CT has proven its value for uses as diverse as personalized cardiovascular risk stratification, prediction, and management, diagnosing lesion-specific ischemia, guiding minimally invasive structural heart disease therapy, and planning cardiovascular surgery, among many others. This second edition is an authoritative guide and reference for both novices and experts in the medical imaging sciences who have an interest in cardiac CT.