

Free epub Green building fundamentals 2nd edition (2023)

the fully updated indispensable study of sustainable design principles fundamentals of integrated design for sustainable building is the first textbook to merge principles theory and practice into an integrated workflow this book introduces the technologies and processes of sustainable design and shows how to incorporate sustainable concepts at every design stage this comprehensive primer takes an active learning approach that keeps students engaged this book dispenses essential information from practicing industry specialists to provide a comprehensive introduction to the future of design this new second edition includes expansive knowledge from history and philosophy to technology and practice fully updated international codes like the cal code and current legislations up to date global practices such as the tools used for life cycle assessment thorough coverage of critical issues such as climate change resiliency health and net zero energy building extensive design problems research exercise study questions team projects and discussion questions that get students truly involved with

the material sustainable design is a responsible forward thinking method for building the best structure possible in the most efficient way conventional resources are depleting and building professionals are thinking farther ahead this means that sustainable design will eventually be the new standard and everyone in the field must be familiar with the concepts to stay relevant fundamentals of integrated design for sustainable building is the ideal primer with complete coverage of the most up to date information the fundamentals of architecture 2nd edition is an introduction to the basic ideas that inform architecture it is intended to unravel the complexity of architecture to explain its process and make it more accessible it guides students through the rich history of the discipline and introduces aspects of contemporary theory and practice the book explores the process of architecture starting from the initial ideas and concepts and how these ideas are informed by understanding site and context it examines the impact of the physical environment and the historical ideas that have informed and influenced the architectural solution the second edition has been redesigned and updated with new material including six case studies exercise sections and contemporary visuals from students and leading architects real world on the job scenarios and a clear straightforward approach bring to life the fundamental mathematical concepts that readers will learn with building a foundation in mathematics 2nd edition this latest edition begins with deliberate and thorough coverage of the simplest topics like whole numbers and fractions before delving into more advanced

areas by the time the book has progressed to complex subjects like binary numbers and boolean algebra readers have been armed with such a solid foundation of the basics that comprehension is easy added value is found in the practical examples that encompass typical situations electricians face every day providing a concrete context for learning and making this book an indispensable resource for anyone seeking the mathematical skills necessary for work in the electrical field check out our app dewalt mobile pro tm this free app is a construction calculator with integrated reference materials and access to hundreds of additional calculations as add ons to learn more visit dewalt com mobilepro this textbook surveys hydraulics and fluid power systems technology with new chapters on system modeling and hydraulic systems controls now included the text presents topics in a systematic way following the course of energy transmission in hydraulic power generation distribution deployment modeling and control in fluid power systems a simple effective approach to attaining learning and performance results job aids are often the most practical way to get quick performance improvement particularly in time pressured resource constrained situations not sure where to begin or even if a job aid is the right choice job aids basics will teach you everything you need to know about selecting creating and using job aids in this revised second edition author joe willmore has included new examples of how to use job aids as well as a new chapter on creating job aids for mobile devices this is in addition to his step by step guide to determining the right job aid

format for any situation developing it using proven best practices and implementing it in a way that ensures people will actually use it on the job willmore also gives you an evaluation process to determine if the job aid accomplished the business objectives you set out to meet each chapter contains insightful tips and tricks to help you avoid common mistakes people make when designing a job aid there are also exercises at the end of every chapter so you can practice what you ve learned and as with all books in atd s training basics series icons will alert you to essential concepts and definitions go from novice job aid designer to expert by adding this crucial resource to your training toolkit conquer the complexity of interior design with a logical methodical approach space planning basics is a definitive introduction and principle resource for thousands of designers with step by step methodology based on the author s several decades of design experience this authoritative guide has become the de facto reference for an entire generation of designers this updated fourth edition includes digitized drawings diagrams and matrices throughout and newly added supplemental photographs the text has been revised to reflect the latest developments in sustainable and universal design including coverage of daylighting benchmarking leed system standards and green code issues the companion website provides autocad files intrustor videos and matrices to give you a deeper real world understanding of the design process this book is perfect preparation for the ncidq exam proper space planning goes way beyond sketching a preliminary floor plan

successful implementation includes a balanced integration of code compliance system support and adherence to the client's functional needs sustainability adds a new important layer of complexity this book shows you how to approach space planning in a way that ensures all considerations are met and nothing gets lost in the process adopt an organized and comprehensive planning methodology work effectively with dimensionally challenging spaces consider building systems codes lighting acoustics and more develop advanced skills and conquer new challenges space planning encompasses many components and processes making a comprehensive reference necessary for mastery of the field space planning basics is a thorough methodical resource that gets you started on the right track with plenty of room for creativity our bestselling introduction to graphic design is now available in a revised and updated edition in graphic design the new basics second edition revised and expanded bestselling author ellen lupton thinking with type type on screen and design educator jennifer cole phillips explain the key concepts of visual language that inform any work of design from logo or letterhead to a complex website through visual demonstrations and concise commentary students and professionals explore the formal elements of twodimensional design such as point line plane scale hierarchy layers and transparency this revised edition replaces sixty four pages of the original publication with new content including new chapters on visualizing data typography modes of representation and gestalt principles and adds sixteen pages of new student and

professional work covering such topics as working with grids and designing with color phonics for pupils with special educational needs is a complete structured multisensory programme for teaching reading and spelling making it fun and accessible for all this fantastic seven part resource offers a refreshingly simple approach to the teaching of phonics alongside activities to develop auditory and visual perceptual skills specifically designed to meet the needs of pupils of any age with special educational needs the books break down phonics into manageable core elements and provide a huge wealth of resources to support teachers in teaching reading and spelling book 1 building basics introduces basic sounds and explores their relationship with letters it focuses on sounds and letters where there is a simple 1 1 correspondence between the two and explores the sounds in simple words that follow the pattern of vowel consonant or consonant vowel consonant sounds are grouped into seven sets with each set containing more than 50 engaging activities including sound story dynamic blending reading race spot the word and spelling challenge thorough guidance is provided on how to deliver each activity as well as a lesson planner template handy word lists and posters for teachers and teaching assistants to use to support learning each book in the series gradually builds on children s understanding of sounds and letters and provides scaffolded support for children to learn about every sound in the english language offering tried and tested material which can be photocopied for each use this is an invaluable resource to simplify phonics teaching

for teachers and teaching assistants and provide fun new ways of learning phonics for all children this book is accompanied by a companion resource phonics for pupils with complex send to be used alongside the phonics for pupils with special educational needs programme the activities from books 1 6 of the programme are adapted to be accessible for non verbal pupils including aac users and those with physical disabilities if you are designing a training program for the first time this practical book is for you part of atd s training basics series it zeroes in on how to design successful training for the face to face or virtual classroom it also serves as a guide for developing self study training programs such as online tutorials and workbooks internationally renowned workplace learning expert and educator saul carliner not only delves into the analysis and evaluation phases of training design where most books stop but also gives prominence to core competencies like materials development marketing and administration updated to reflect changes in training practices this second edition helps instructional designers hone key training skills major additions include guidance on live virtual and online tutorials completely new training programs and tips for how to adjust design practice when working under stringent conditions in this book you will learn best practices for designing and developing training programs in the real world tactics to successfully launch and run training programs you ve designed how to adjust design practices along three tiers of effort in platinum silver and bronze scenarios this book addresses the main challenges in implementing the

concepts that aim to replace the regular fossil fuels based energy pattern with the novel energy pattern relying on renewable energy as the built environment is one major energy consumer well known and exploited by each community member the challenges addressing the built environment has to be solved with the consistent contribution of the community inhabitants and its administration the transition phase which already is under implementation is represented by the nearly zero energy communities nzeb from the research topics towards the large scale implementation the nzeb concept is analyzed in this book starting with the specific issues of the sustainable built environment beyond the nearly zero energy buildings towards a more integrated view on the community chapter1 and followed by various implementation concepts for renewable heating cooling chapter 2 for renewable electrical energy production at community level chapter 3 and for sustainable water use and reuse chapter 4 as the topic is still new specific instruments supporting education and training chapter 5 are needed aiming to provide the knowledge that can drive the communities in the near future and is expected to increase the acceptance towards renewable energy implemented at community level the sub chapters of this book are the proceedings of the 5th edition of the conference for sustainable energy during 19 21 october 2017 organized by the r d centre renewable energy systems and recycling in the r d institute of the transilvania university of brasov this event was organized under the patronage of the international federation for the science of machines and

mechanisms from the technical committee sustainable energy systems of the european sustainable energy alliance eseia and of the romanian academy of technical sciences this book makes the extremely complex process of architectural perception far more transparent and thus contributes to a better understanding of our built environment why is there so much debate about the appearance of our built environment about the aesthetics of architecture today why do opinions about the aesthetic quality of buildings often diverge extremely even among experts why can't we agree on architecture on what is beautiful and what is not most areas of construction such as statics and building physics are measurable and can therefore be substantiated with objective arguments yet this does not apply to the unquantifiable aesthetics of architecture accordingly judgments on aesthetics are always subject specific and strongly dependent on the viewer nevertheless the aesthetics of architecture is not just a matter of taste many relationships between buildings as objects and viewers as subjects can be determined objectively with the help of perceptual psychology and information theory as this book demonstrates for some organizations lessons learned II is an informal process of discussing and recording project experiences during the closure phase for others II is a formal process that occurs at the end of each phase of a project regardless of when they are performed if you are a project team member chances are you will soon be required to present an evaluation of your project using lessons learned presenting new information that

updates the award winning first edition the basics of project evaluation and lessons learned second edition supplies practical guidance on conducting project lessons learned the first edition won the project management institute s pmi david i cleland project management literature award following in the footsteps of its popular predecessor this second edition provides an easy to follow systematic approach to conducting lessons learned on a project updated to align with the pmbok guide fifth edition includes three new chapters prince2 agile retrospectives and knowledge transfer in response to information requests from readers of the first edition from around the world enhanced with valuable new resources in the project evaluation resource kit perk found on the free cd included in the back of the book including a fully functional ms access lessons learned database the research in this book is based on four years of doctoral dissertation research and is supported by renowned experts in the field of evaluation the concepts covered are applicable to all types of organizations that implement projects and need to conduct lessons learned providing tools and techniques for active engagement the text is founded on the principles of conducting project evaluations as recommended by the project management institute pmi the world s leading not for profit membership association for the project management profession and prince2 project in controlled environments version 2 a major governing body of project management simplifying and formalizing the methodology of conducting ll in projects the contents of this book will help organizations large and

small more effectively implement processes and systems to support effective II the text is supported by a project evaluation resource kit perk which is found in cd format at the back of the book an accessible climate diverse guide that transforms readers from sustainable design novices to whole solution problem solvers sustainable design basics is a student friendly introduction to a holistic and integral view of sustainable design comprehensive in scope this textbook presents basic technical information sustainability strategies and a practical step by step approach for sustainable building projects clear and relatable chapters illustrate how to identify the factors that reduce energy use solve specific sustainable design problems develop holistic design solutions and address the social and cultural aspects of sustainable design requiring no prior knowledge of the subject the text s easy to follow methodology leads readers through the fundamental sustainable design principles for the built environment sustainably constructed and maintained buildings protect the health and improve the productivity of their occupants as well as help to restore the global ecosystem the authors leading practitioners and educators in sustainable design have created a resource that provides a solid introduction to broad level sustainability thinking that students can take forward into their professional practice topics include space planning for sustainable design integrative and collaborative design standards and rating systems real world strategies to conserve energy and resources through leveraging renewable natural resources and innovative construction techniques

and their impact on our environment usable and useful both in and beyond the classroom this book covers building location strategies building envelopes and structures integration of passive and active systems green materials and project presentation examines cultural factors social equity ecological systems and aesthetics provides diverse student exercises that vary by climate geography setting perspective and typology features a companion website containing extensive instructor resources sustainable design basics is an important resource aimed at undergraduate architecture and interior design students or first year graduate students as well as design professionals wishing to integrate sustainable design knowledge and techniques into their practice fundamentals of firefighter skills fifth edition with navigate premier access is the complete teaching and learning solution for firefighter i and firefighter ii courses fundamentals of firefighter skills with hazardous materials response fifth edition with navigate premier access is the complete teaching and learning solution for firefighter i and firefighter ii with hazardous materials response courses written at an intermediate level in a way that is easy to understand fundamentals and applications of ultrasonic waves second edition provides an up to date exposition of ultrasonics and some of its main applications designed specifically for newcomers to the field this fully updated second edition emphasizes underlying physical concepts over mathematics the first half covers the fundamentals of ultrasonic waves for isotropic media starting with bulk liquid and solid media discussion extends

to surface and plate effects at which point the author introduces new modes such as rayleigh and lamb waves this focus on only isotropic media simplifies the usually complex mathematics involved enabling a clearer understanding of the underlying physics to avoid the complicated tensorial description characteristic of crystalline media the second part of the book addresses a broad spectrum of industrial and research applications including quartz crystal resonators surface acoustic wave devices mems and microacoustics and acoustic sensors it also provides a broad discussion on the use of ultrasonics for non destructive evaluation the author concentrates on the developing area of microacoustics including exciting new work on the use of probe microscopy techniques in nanotechnology focusing on the physics of acoustic waves as well as their propagation technology and applications this book addresses viscoelasticity as well as new concepts in acoustic microscopy it updates coverage of ultrasonics in nature and developments in sonoluminescence and it also compares new technologies including use of atomic force acoustic microscopy and lasers highlighting both direct and indirect applications for readers working in neighboring disciplines the author presents particularly important sections on the use of microacoustics and acoustic nanoprobe in next generation devices and instruments with gis technology increasingly available to a wider audience on devices from apps on smartphones to satnavs in cars many people routinely use spatial data in a way which used to be the preserve of gis specialists however spatial data is stored

and analyzed on a computer still tends to be described in academic texts and articles which require specialist knowledge or some training in computer science developed to introduce computer science literature to geography students gis fundamentals second edition provides an accessible examination of the underlying principles for anyone with no formal training in computer science see what s new in the second edition coverage of the use of spatial data on the internet chapters on databases and on searching large databases for spatial queries improved coverage on route finding improved coverage of heuristic approaches to solving real world spatial problems international standards for spatial data the book begins with a brief but detailed introduction to how computers work and how they are programmed giving anyone with no previous computer science background a foundation to understand the remainder of the book as with all parts of the book there are also suggestions for further sources of reading the book then describes the ways in which vector and raster data can be stored and how algorithms are designed to perform fundamental operations such as detecting where lines intersect from these simple beginnings the book moves into the more complex structures used for handling surfaces and networks and contains a detailed account of what it takes to determine the shortest route between two places on a network the final sections of the book review problems such as the travelling salesman problem which are so complex that it is not known whether an optimum solution exists using clear concise language but without

sacrificing technical rigour the book gives readers an understanding of what it takes to produce systems which allow them to find out where to make their next purchase and how to drive to the right place to collect it your essential guide to calculating return on investment build and refine your measurement and evaluation skills through roi basics perfect for beginners challenged to implement a comprehensive evaluation process as well as those taking a proactive approach to accountability its five level evaluation framework includes level 1 reaction and planned action level 2 learning level 3 application and implementation level 4 impact level 5 return on investment roi basics provides a baseline exploration of roi for the talent development function and the steps to successful evaluation evaluation planning data collection data analysis and results optimization in this second edition experts patti and jack phillips go deeper into aligning programs to the business detecting payoff needs and identifying specific business measures that need to improve they explore how the process applies beyond training to talent development and suggest how new technologies can influence roi adoption and implementation in your organization this updated book offers a review of two essential and often overlooked steps in the roi process isolating program impact and sustaining momentum although the practice of chemical engineering has broadened to encompass problems in a range of disciplines including biology biochemistry and nanotechnology one of the curriculum s foundations is built upon the subject of transport phenomena transport phenomena

fundamentals second edition provides a unified treatment of heat mass and momentum transport based on a balance equation approach designed for a two term course used in a two term transport phenomena sequence at rensselaer polytechnic institute this text streamlines the approach to how the subject is taught the first part of the book takes students through the balance equation in the context of diffusive transport be it momentum energy mass or charge each chapter adds a term to the balance equation highlighting the effects of that addition on the physical behavior of the system and the underlying mathematical description the second half of the book builds upon the balance equation description of diffusive transport by introducing convective transport terms focusing on partial rather than ordinary differential equations the navier stokes and convective transport equations are derived from balance equations in both macroscopic and microscopic forms includes examples and problems drawn from comsol software the second edition of this text is now enhanced by the use of finite element methods in the form of examples and extended homework problems a series of example modules are associated with each chapter of the text some of the modules are used to produce examples in the text and some are discussed in the homework at the end of each chapter all of the modules are located online at an accompanying website which is designed to be a living component of the course available on the download tab buy solved series of basics of civil mechanical engineering e book for b tech i ii semester students common to all

of apj abdul kalam technological university ktu kerala everything you need to know to get started as an adult learning professional instructing adults is dramatically different from teaching children and the effectiveness of training programs is often dictated by how well they apply the principles of adult learning enhance your programs with the latest research into how adults learn remember and apply knowledge and skills adult learning basics examines the principles of adult learning theory and how they relate to the training function by addressing individual learning competencies organizational learning climate and technology related issues this new edition features the latest research on generational trends microlearning and other td breakthroughs exercises at the end of each chapter help you apply the science and theory to your real talent development challenges elevate your practice with this thorough guide and keep it as an indispensable resource it s a digital world is your training up to speed build your virtual training skills with this new edition of virtual training basics by cindy huggett you don t have to be a tech wizard to follow her tested and proven techniques for enhancing your virtual training design and delivery e learning has been around since the late 90s but it continually evolves sometimes it may seem impossible to keep up but your learners need courses that they can take anywhere organizations need to save money and time on travel and everyone expects your material to be as current as possible take it back to the basics virtual training basics will get you started with the fundamentals of virtual training and then build you

up through design and facilitation with updated material and two new chapters to cover the latest breakthroughs and skills you need to know in this book you will get tips from a variety of seasoned virtual trainers gain insight into the differences and similarities between facilitating in person training and virtual training understand the fundamentals of virtual training design whether you re new to virtual training or looking for ways to update your existing skills virtual training basics 2nd edition will take you there updated and revised ethics the basics second edition introduces students to fundamental ethical concepts principles theories and traditions while providing them with the conceptual tools necessary to think critically about ethical issues introduces students to core philosophical problems in ethics in a uniquely reader friendly manner lays out clearly and simply a rich collection of ethical concepts principles theories and traditions that are prevalent in today s society considers western and non western viewpoints and religious interpretations of ethical principles offers a framework for students to think about and navigate through an array of philosophical questions about ethics fundamental concepts and skills for nursing 6th edition prepares students to learn the basic concepts and fundamental skills that lpns lvns need to practice in a number of care settings including hospitals long term care facilities medical offices clinics surgery centres and home care agencies this second south asia edition of dewit s fundamental concepts and skills for nursing is a uniquely featured textbook designed to make a worthy impact on its readers the book is customised

as per the revised b sc nursing curriculum prescribed by the indian nursing council inc to meet the learning requirements of undergraduate students nursing professionals aspiring for higher education or career progression will also find this book useful for reference the full colour text contains theoretical nursing concepts step by step skills and procedures and clinical applications to build a strong foundation in the patient care experience the underlying framework of all the chapters pivots around the nursing process and also portrays the concepts like psycho social aspects critical thinking communication skills inter professional collaborations patient family education and cultural integrity discusses more than 80 essential skills and around 30 petite forms of skills with step by step format supported with coloured illustrations along with action rationale format each chapter starts with key terms objectives and has supportive glossary enhanced with stimulating highpoints such as special clinical cues cultural considerations lifespan considerations focused assessment health promotion legal ethical considerations patient education qsen considerations safety alert and think critically boxes includes nursing process framework featuring the application of the nursing process and nursing care plans reinforcing its application in the clinical setting more than 20 nursing care plans illustrating each step of the nursing process includes concept maps that help students visualise concepts addressed in the text and learn how a condition or response relating to symptoms treatments and side effects can affect more than one body system the integration

of building services is an important aspect of architectural planning the conceptual design of supply systems and cycles within the building demands a solid grasp of the relationships that underpin the supply and disposal of the element water the focus here is on relations among the individual elements of the cycle from the supply of drinking water consumers inside the building and the disposal of wastewater to the rehabilitation of wastewater the subject of water conservation is present throughout as an overarching framework topics requirements for drinking water supply connections and distribution networks in the building wastewater disposal and use dealing with rainwater resource friendly approaches fire safety is an important part of building design it consists of measures to prevent fires from starting to facilitate the rescue of individuals in a burning building and to help firefighters contain a blaze the book explains the general concepts and fundamental issues of fire safety in building design beyond the particulars of local building regulations this work studies the combat actions in two operations in lebanon and the gaza strip the writing team focused on the transformation of the idf before and after the second lebanon war of 2006 and in preparation for operation cast lead in the winter of 2008 09 in lebanon the idf pitted ill trained soldiers and ill educated officers who attempted to carry out vague orders and unfamiliar tasks against men with good weapons and a simple mission this was the first open conflict in israel s cold war with iran and its proxy force of hezbollah in what became known as the second lebanon war the idf

operation cast lead against hamas in 2008 09 was a small scale affair in comparison to the multi division attack into lebanon in 2006 the former operation however restored confidence in both the government and armed forces in the eyes of the israeli populace the reforms of the year and a half between conflicts paid great dividends originally published by the combat studies institute press u s army if ai is outside your field or you know something of the subject and would like to know more then artificial intelligence the basics is a brilliant primer nick smith engineering and technology magazine november 2011 artificial intelligence the basics is a concise and cutting edge introduction to the fast moving world of ai the author kevin warwick a pioneer in the field examines issues of what it means to be man or machine and looks at advances in robotics which have blurred the boundaries topics covered include how intelligence can be defined whether machines can think sensory input in machine systems the nature of consciousness the controversial culturing of human neurons exploring issues at the heart of the subject this book is suitable for anyone interested in ai and provides an illuminating and accessible introduction to this fascinating subject fundamentals of nursing by potter and perry is a widely appreciated textbook on nursing foundations fundamentals its comprehensive coverage provides fundamental nursing concepts skills and techniques of nursing practice and a firm foundation for more advanced areas of study this second south asia edition of potter and perry s fundamentals of nursing not only provides the well

established authentic content of international standards but also caters to the specific curriculum requirements of nursing students of the region salient features fully compliant to the inc curriculum easy to read interesting and involving disposition which leads the reader through various facets of nursing foundations fundamentals improved layout design and presentation a number of photographs replaced with the indian ones to provide regional feel to the content long answer and short answer questions added at the end of every chapter heavy duty wheeled vehicles hdwvs are all wheel drive vehicles that carry 25 tons or more and have three or more axles they transport heavy bulky cargo such as raw minerals timber construction materials pre fabricated modules weapons combat vehicles and more hdwvs are used in a variety of industries mining logging construction energy and are critical to a country s economy and defense these vehicles have unique development requirements due to their high loads huge dimensions and specific operating conditions hauling efficiencies can be improved by increasing vehicle load capacity however capacities are influenced by legislation road limits and design designing hdwvs differs from other multi purpose all wheel drive vehicles the chassis must be custom designed to suit the customer s particular purpose the number of axles is another variable as well as which ones are driving and which are driven tires are also customizable translated by sae from russian this book narrates the history of hdwvs and presents the theory and calculations required to design them it summarizes results of the authors

academic research and experience and presents innovative technical solutions used for electric and hydrostatic transmissions steering systems and active safety of these vehicles the book consists of three parts part one covers hdwv design history and general design methods including basic vehicle design and evaluating hdwv use conditions part one also covers general operation requirements and consumer needs and a brief analysis of structural components of existing hdwvs and prototypes part two outlines information needs for designing hdwvs part three reviews basic theory and calculation of innovative technical solutions as well as special requirements for component parts this comprehensive title provides the following information about hdwvs history of design and manufacture manufacturers summary design data background data on sample vehicles component calculation examples overview of motion theory which is useful in design and placement of bulky cargo neufert s architects data is an essential reference for the initial design and planning of a building project it provides in one concise volume the core information needed to form the framework for the more detailed design and planning of any building project organised largely by building type it covers the full range of preliminary considerations and with over 6200 diagrams it provides a mass of data on spatial requirements most illustrations are dimensioned and each building type includes plans sections site layouts and design details an extensive bibliography and a detailed set of metric imperial conversion tables are included since it was first published in germany in 1936

ernst neufert's handbook has been progressively revised and updated through 39 editions and many translations. This fourth English language edition is translated from the 39th German edition and represents a major new edition for an international English speaking readership. Reviews of the previous edition: Neufert's Architects Data was the first book I bought when I started my studies in architecture. It was invaluable for me then and it is still a useful aid in my designs. Cesar Pelli with this thorough rewrite Neufert has produced yet again an invaluable reference book. The Architects Journal: This book attempts to systematise the present interrelationship between fundamental rights and the EU internal market in the field of positive integration. Its intention is simple: to examine the way in which and the extent to which fundamental rights protection is realised through EU internal market legislation. To that end the analysis is conducted around four rights or sets of rights: data protection, freedom of expression, fundamental labour rights, and the right to health. The book assesses not only what substantive level of protection is achieved for these fundamental rights but it also estimates whether there is a fundamental rights culture that informs current legislative practice. Finally it asks the overarching question: whether the current state of harmonisation amounts to a fundamental rights policy. The book offers a much more varied picture of the EU's fundamental rights policy in and through the EU internal market than perhaps initially expected. Moreover it builds the case for a more conscious approach to dealing with and enhancing fundamental rights protection in and

through internal market legislation and advocates a leading role for the legislature in the establishment of an internal market that is firmly based on respect for fundamental rights buildings with wide spans such as industrial plants and warehouses are usually built with steel the architect must understand the specific material properties and requirements of steel as a construction material including its static properties which influence dimensioning and profile selection step by step basics steel construction imparts the basic understanding needed for planning with steel as a building material the charter of fundamental rights of the european union includes in addition to the traditional civil and political rights a large number of rights of an economic or social nature this collection of essays by leading scholars in this field considers the significance of the inclusion of such rights within the eu charter in terms of protection of individual and collective social and economic interests within and between the eu and its member states what differences might it make to eu law and policy both in terms of its substance and in terms of the processes by which it is formed that certain economic and social rights are proclaimed in the eu charter neuroscience fundamentals for communication sciences and disorders second edition is a comprehensive textbook primarily designed for undergraduate neural bases or graduate neuroscience courses in communication sciences and disorders programs csd the text can also be used as an accessible go to reference for speech language pathology and audiology clinical professionals practicing in medical and rehab settings written with an

engaging and conversational style the author uses humor and analogies to explain concepts that are often challenging for students complemented by more than 400 visually rich and beautifully drawn full color illustrations the book emphasizes brain and behavior relationships while also ensuring coverage of essential neuroanatomy and neurophysiology in an integrative fashion with a comprehensive background in the principles processes and structures underlying the workings of the human nervous system students and practitioners alike will be able to better understand and apply brain behavior relationships to make appropriate clinical assessments and treatment decisions extending well beyond traditional neuroanatomy based textbooks this resource is designed to satisfy three major goals provide neuroanatomical and neurophysiological detail that meets the real world needs of the contemporary csd student as they move forward toward clinical practice and into the future where advancements in the field of health and brain sciences are accelerating and contributing more and more each day to all areas of rehabilitation provide clear understandable explanations and intuitive material that explains how and why neuroanatomical systems processes and mechanisms of the nervous system operate as they do during human behavior provide a depth and scope of material that will allow the reader to better understand and appreciate a wide range of evidence based literature related to behavior cognition emotion language and sensory perception areas that all directly impact treatment decisions new to the second edition 40 new full color illustrations

reorganization and division of content from chapters 4 5 and 6 of the previous edition into six new and more digestible chapters a new standalone chapter on the cranial nerves addition of a major section and discussion on the neural bases of swallowing addition of more summary tables and process flowcharts to simplify the text and provide ready made study materials for students revisions to most figures to improve their clarity and coherence with the written material disclaimer please note that ancillary content such as documents audio and video etc may not be included as published in the original print version of this book

Fundamentals of Integrated Design for Sustainable Building 2016-05-02 the fully updated indispensable study of sustainable design principles fundamentals of integrated design for sustainable building is the first textbook to merge principles theory and practice into an integrated workflow this book introduces the technologies and processes of sustainable design and shows how to incorporate sustainable concepts at every design stage this comprehensive primer takes an active learning approach that keeps students engaged this book dispenses essential information from practicing industry specialists to provide a comprehensive introduction to the future of design this new second edition includes expansive knowledge from history and philosophy to technology and practice fully updated international codes like the cal code and current legislations up to date global practices such as the tools used for life cycle assessment thorough coverage of critical issues such as climate change resiliency health and net zero energy building extensive design problems research exercise study questions team projects and discussion questions that get students truly involved with the material sustainable design is a responsible forward thinking method for building the best structure possible in the most efficient way conventional resources are depleting and building professionals are thinking farther ahead this means that sustainable design will eventually be the new standard and everyone in the field must be familiar with the concepts to stay relevant fundamentals of integrated design for sustainable building is the ideal primer with complete coverage of the most

up to date information

Fundamentals of Building Construction 4th Edition with Residential Construction 2nd Edition Set 2006-08-04 the fundamentals of architecture 2nd edition is an introduction to the basic ideas that inform architecture it is intended to unravel the complexity of architecture to explain its process and make it more accessible it guides students through the rich history of the discipline and introduces aspects of contemporary theory and practice the book explores the process of architecture starting from the initial ideas and concepts and how these ideas are informed by understanding site and context it examines the impact of the physical environment and the historical ideas that have informed and influenced the architectural solution the second edition has been redesigned and updated with new material including six case studies exercise sections and contemporary visuals from students and leading architects

Lightweight Steel Framing 2019 real world on the job scenarios and a clear straightforward approach bring to life the fundamental mathematical concepts that readers will learn with building a foundation in mathematics 2nd edition this latest edition begins with deliberate and thorough coverage of the simplest topics like whole numbers and fractions before delving into more advanced areas by the time the book has progressed to complex subjects like binary numbers and boolean algebra readers have been armed with such a solid foundation of the basics

that comprehension is easy added value is found in the practical examples that encompass typical situations electricians face every day providing a concrete context for learning and making this book an indispensable resource for anyone seeking the mathematical skills necessary for work in the electrical field check out our app dewalt mobile pro tm this free app is a construction calculator with integrated reference materials and access to hundreds of additional calculations as add ons to learn more visit dewalt com mobilepro

The Fundamentals of Architecture 2012-07-09 this textbook surveys hydraulics and fluid power systems technology with new chapters on system modeling and hydraulic systems controls now included the text presents topics in a systematic way following the course of energy transmission in hydraulic power generation distribution deployment modeling and control in fluid power systems

Building Type Basics for College and University Facilities 2013 a simple effective approach to attaining learning and performance results job aids are often the most practical way to get quick performance improvement particularly in time pressured resource constrained situations not sure where to begin or even if a job aid is the right choice job aids basics will teach you everything you need to know about selecting creating and using job aids in this revised second edition author joe willmore has included new examples of how to use job aids as well as a new chapter on creating job aids for mobile devices this is in addition to his step by step guide to

determining the right job aid format for any situation developing it using proven best practices and implementing it in a way that ensures people will actually use it on the job willmore also gives you an evaluation process to determine if the job aid accomplished the business objectives you set out to meet each chapter contains insightful tips and tricks to help you avoid common mistakes people make when designing a job aid there are also exercises at the end of every chapter so you can practice what you ve learned and as with all books in atd s training basics series icons will alert you to essential concepts and definitions go from novice job aid designer to expert by adding this crucial resource to your training toolkit

Building a Foundation in Mathematics 2011 conquer the complexity of interior design with a logical methodical approach space planning basics is a definitive introduction and principle resource for thousands of designers with step by step methodology based on the author s several decades of design experience this authoritative guide has become the de facto reference for an entire generation of designers this updated fourth edition includes digitized drawings diagrams and matrices throughout and newly added supplemental photographs the text has been revised to reflect the latest developments in sustainable and universal design including coverage of daylighting benchmarking leed system standards and green code issues the companion website provides autocad files intrustor videos and matrices to give you a deeper real world understanding of the design process

this book is perfect preparation for the ncidq exam proper space planning goes way beyond sketching a preliminary floor plan successful implementation includes a balanced integration of code compliance system support and adherence to the client s functional needs sustainability adds a new important layer of complexity this book shows you how to approach space planning in a way that ensures all considerations are met and nothing gets lost in the process adopt an organized and comprehensive planning methodology work effectively with dimensionally challenging spaces consider building systems codes lighting acoustics and more develop advanced skills and conquer new challenges space planning encompasses many components and processes making a comprehensive reference necessary for mastery of the field space planning basics is a thorough methodical resource that gets you started on the right track with plenty of room for creativity

Basics of Hydraulic Systems, Second Edition 2019-03-07 our bestselling introduction to graphic design is now available in a revised and updated edition in graphic design the new basics second edition revised and expanded bestselling author ellen lupton thinking with type type on screen and design educator jennifer cole phillips explain the key concepts of visual language that inform any work of design from logo or letterhead to a complex website through visual demonstrations and concise commentary students and professionals explore the formal elements of twodimensional design such as point line plane scale hierarchy layers and transparency this revised edition

replaces sixty four pages of the original publication with new content including new chapters on visualizing data typography modes of representation and gestalt principles and adds sixteen pages of new student and professional work covering such topics as working with grids and designing with color

Job Aids Basics, 2nd Edition 2018-09-18 phonics for pupils with special educational needs is a complete structured multisensory programme for teaching reading and spelling making it fun and accessible for all this fantastic seven part resource offers a refreshingly simple approach to the teaching of phonics alongside activities to develop auditory and visual perceptual skills specifically designed to meet the needs of pupils of any age with special educational needs the books break down phonics into manageable core elements and provide a huge wealth of resources to support teachers in teaching reading and spelling book 1 building basics introduces basic sounds and explores their relationship with letters it focuses on sounds and letters where there is a simple 1 1 correspondence between the two and explores the sounds in simple words that follow the pattern of vowel consonant or consonant vowel consonant sounds are grouped into seven sets with each set containing more than 50 engaging activities including sound story dynamic blending reading race spot the word and spelling challenge thorough guidance is provided on how to deliver each activity as well as a lesson planner template handy word lists and posters for teachers and teaching assistants to use to support learning each book in the

series gradually builds on children s understanding of sounds and letters and provides scaffolded support for children to learn about every sound in the english language offering tried and tested material which can be photocopied for each use this is an invaluable resource to simplify phonics teaching for teachers and teaching assistants and provide fun new ways of learning phonics for all children this book is accompanied by a companion resource phonics for pupils with complex send to be used alongside the phonics for pupils with special educational needs programme the activities from books 1 6 of the programme are adapted to be accessible for non verbal pupils including aac users and those with physical disabilities

5 Fundamentals for the Wholesale Distribution Branch Manager, Second Edition 2012-08 if you are designing a training program for the first time this practical book is for you part of atd s training basics series it zeroes in on how to design successful training for the face to face or virtual classroom it also serves as a guide for developing self study training programs such as online tutorials and workbooks internationally renowned workplace learning expert and educator saul carliner not only delves into the analysis and evaluation phases of training design where most books stop but also gives prominence to core competencies like materials development marketing and administration updated to reflect changes in training practices this second edition helps instructional designers hone key training skills major additions include guidance on live virtual and online tutorials completely

new training programs and tips for how to adjust design practice when working under stringent conditions in this book you will learn best practices for designing and developing training programs in the real world tactics to successfully launch and run training programs you ve designed how to adjust design practices along three tiers of effort in platinum silver and bronze scenarios

Space Planning Basics 2016-02-18 this book addresses the main challenges in implementing the concepts that aim to replace the regular fossil fuels based energy pattern with the novel energy pattern relying on renewable energy as the built environment is one major energy consumer well known and exploited by each community member the challenges addressing the built environment has to be solved with the consistent contribution of the community inhabitants and its administration the transition phase which already is under implementation is represented by the nearly zero energy communities nzeb from the research topics towards the large scale implementation the nzeb concept is analyzed in this book starting with the specific issues of the sustainable built environment beyond the nearly zero energy buildings towards a more integrated view on the community chapter1 and followed by various implementation concepts for renewable heating cooling chapter 2 for renewable electrical energy production at community level chapter 3 and for sustainable water use and reuse chapter 4 as the topic is still new specific instruments supporting education and training chapter 5 are needed aiming to provide the

knowledge that can drive the communities in the near future and is expected to increase the acceptance towards renewable energy implemented at community level the sub chapters of this book are the proceedings of the 5th edition of the conference for sustainable energy during 19-21 october 2017 organized by the r d centre renewable energy systems and recycling in the r d institute of the transilvania university of brasov this event was organized under the patronage of the international federation for the science of machines and mechanisms iftomm the technical committee sustainable energy systems of the european sustainable energy alliance eseia and of the romanian academy of technical sciences

Convert to EV: The Basics (Second Edition) 2015-07-14 this book makes the extremely complex process of architectural perception far more transparent and thus contributes to a better understanding of our built environment why is there so much debate about the appearance of our built environment about the aesthetics of architecture today why do opinions about the aesthetic quality of buildings often diverge extremely even among experts why can't we agree on architecture on what is beautiful and what is not most areas of construction such as statics and building physics are measurable and can therefore be substantiated with objective arguments yet this does not apply to the unquantifiable aesthetics of architecture accordingly judgments on aesthetics are always subject specific and strongly dependent on the viewer nevertheless the aesthetics of architecture is not

just a matter of taste many relationships between buildings as objects and viewers as subjects can be determined objectively with the help of perceptual psychology and information theory as this book demonstrates *Graphic Design: The New Basics (Second Edition, Revised and Expanded)* 2018-10-12 for some organizations lessons learned II is an informal process of discussing and recording project experiences during the closure phase for others II is a formal process that occurs at the end of each phase of a project regardless of when they are performed if you are a project team member chances are you will soon be required to present an evaluation of your project using lessons learned presenting new information that updates the award winning first edition the basics of project evaluation and lessons learned second edition supplies practical guidance on conducting project lessons learned the first edition won the project management institute s pmi david i cleland project management literature award following in the footsteps of its popular predecessor this second edition provides an easy to follow systematic approach to conducting lessons learned on a project updated to align with the pmbok guide fifth edition includes three new chapters prince2 agile retrospectives and knowledge transfer in response to information requests from readers of the first edition from around the world enhanced with valuable new resources in the project evaluation resource kit perk found on the free cd included in the back of the book including a fully functional ms access lessons learned database the research in this book is based on four years

of doctoral dissertation research and is supported by renowned experts in the field of evaluation the concepts covered are applicable to all types of organizations that implement projects and need to conduct lessons learned providing tools and techniques for active engagement the text is founded on the principles of conducting project evaluations as recommended by the project management institute pmi the world s leading not for profit membership association for the project management profession and prince2 project in controlled environments version 2 a major governing body of project management simplifying and formalizing the methodology of conducting ll in projects the contents of this book will help organizations large and small more effectively implement processes and systems to support effective ll the text is supported by a project evaluation resource kit perk which is found in cd format at the back of the book

Phonics for Pupils with Special Educational Needs Book 1: Building Basics 2015-09-16 an accessible climate diverse guide that transforms readers from sustainable design novices to whole solution problem solvers sustainable design basics is a student friendly introduction to a holistic and integral view of sustainable design comprehensive in scope this textbook presents basic technical information sustainability strategies and a practical step by step approach for sustainable building projects clear and relatable chapters illustrate how to identify the factors that reduce energy use solve specific sustainable design problems develop holistic design solutions and

address the social and cultural aspects of sustainable design requiring no prior knowledge of the subject the text is easy to follow methodology leads readers through the fundamental sustainable design principles for the built environment sustainably constructed and maintained buildings protect the health and improve the productivity of their occupants as well as help to restore the global ecosystem the authors leading practitioners and educators in sustainable design have created a resource that provides a solid introduction to broad level sustainability thinking that students can take forward into their professional practice topics include space planning for sustainable design integrative and collaborative design standards and rating systems real world strategies to conserve energy and resources through leveraging renewable natural resources and innovative construction techniques and their impact on our environment usable and useful both in and beyond the classroom this book covers building location strategies building envelopes and structures integration of passive and active systems green materials and project presentation examines cultural factors social equity ecological systems and aesthetics provides diverse student exercises that vary by climate geography setting perspective and typology features a companion website containing extensive instructor resources sustainable design basics is an important resource aimed at undergraduate architecture and interior design students or first year graduate students as well as design professionals wishing to integrate sustainable design knowledge and techniques into their practice

Training Design Basics, 2nd Edition 2017-08-31 fundamentals of firefighter skills fifth edition with navigate

premier access is the complete teaching and learning solution for firefighter i and firefighter ii courses

Nearly Zero Energy Communities 2020-10-14 fundamentals of firefighter skills with hazardous materials response

fifth edition with navigate premier access is the complete teaching and learning solution for firefighter i and

firefighter ii with hazardous materials response courses

Basics of Perception in Architecture 2014-08-22 written at an intermediate level in a way that is easy to

understand fundamentals and applications of ultrasonic waves second edition provides an up to date exposition

of ultrasonics and some of its main applications designed specifically for newcomers to the field this fully updated

second edition emphasizes underlying physical concepts over mathematics the first half covers the fundamentals

of ultrasonic waves for isotropic media starting with bulk liquid and solid media discussion extends to surface and

plate effects at which point the author introduces new modes such as rayleigh and lamb waves this focus on only

isotropic media simplifies the usually complex mathematics involved enabling a clearer understanding of the

underlying physics to avoid the complicated tensorial description characteristic of crystalline media the second

part of the book addresses a broad spectrum of industrial and research applications including quartz crystal

resonators surface acoustic wave devices mems and microacoustics and acoustic sensors it also provides a

broad discussion on the use of ultrasonics for non destructive evaluation the author concentrates on the developing area of microacoustics including exciting new work on the use of probe microscopy techniques in nanotechnology focusing on the physics of acoustic waves as well as their propagation technology and applications this book addresses viscoelasticity as well as new concepts in acoustic microscopy it updates coverage of ultrasonics in nature and developments in sonoluminescence and it also compares new technologies including use of atomic force acoustic microscopy and lasers highlighting both direct and indirect applications for readers working in neighboring disciplines the author presents particularly important sections on the use of microacoustics and acoustic nanoprobe in next generation devices and instruments

The Basics of Project Evaluation and Lessons Learned, Second Edition 2020-02-26 with gis technology

increasingly available to a wider audience on devices from apps on smartphones to satnavs in cars many people routinely use spatial data in a way which used to be the preserve of gis specialists however spatial data is stored and analyzed on a computer still tends to be described in academic texts and articles which require specialist knowledge or some training in computer science developed to introduce computer science literature to geography students gis fundamentals second edition provides an accessible examination of the underlying principles for anyone with no formal training in computer science see what's new in the second edition coverage of the use of

spatial data on the internet chapters on databases and on searching large databases for spatial queries improved coverage on route finding improved coverage of heuristic approaches to solving real world spatial problems international standards for spatial data the book begins with a brief but detailed introduction to how computers work and how they are programmed giving anyone with no previous computer science background a foundation to understand the remainder of the book as with all parts of the book there are also suggestions for further sources of reading the book then describes the ways in which vector and raster data can be stored and how algorithms are designed to perform fundamental operations such as detecting where lines intersect from these simple beginnings the book moves into the more complex structures used for handling surfaces and networks and contains a detailed account of what it takes to determine the shortest route between two places on a network the final sections of the book review problems such as the travelling salesman problem which are so complex that it is not known whether an optimum solution exists using clear concise language but without sacrificing technical rigour the book gives readers an understanding of what it takes to produce systems which allow them to find out where to make their next purchase and how to drive to the right place to collect it

Sustainable Design Basics 2024-04-22 your essential guide to calculating return on investment build and refine your measurement and evaluation skills through roi basics perfect for beginners challenged to implement a

comprehensive evaluation process as well as those taking a proactive approach to accountability its five level evaluation framework includes level 1 reaction and planned action level 2 learning level 3 application and implementation level 4 impact level 5 return on investment roi basics provides a baseline exploration of roi for the talent development function and the steps to successful evaluation evaluation planning data collection data analysis and results optimization in this second edition experts patti and jack phillips go deeper into aligning programs to the business detecting payoff needs and identifying specific business measures that need to improve they explore how the process applies beyond training to talent development and suggest how new technologies can influence roi adoption and implementation in your organization this updated book offers a review of two essential and often overlooked steps in the roi process isolating program impact and sustaining momentum

Fundamentals of Firefighter Skills with Navigate Premier Access 2024-04-22 although the practice of chemical engineering has broadened to encompass problems in a range of disciplines including biology biochemistry and nanotechnology one of the curriculum s foundations is built upon the subject of transport phenomena transport phenomena fundamentals second edition provides a unified treatment of heat mass and momentum transport based on a balance equation approach designed for a two term course used in a two term transport phenomena

sequence at rensselaer polytechnic institute this text streamlines the approach to how the subject is taught the first part of the book takes students through the balance equation in the context of diffusive transport be it momentum energy mass or charge each chapter adds a term to the balance equation highlighting the effects of that addition on the physical behavior of the system and the underlying mathematical description the second half of the book builds upon the balance equation description of diffusive transport by introducing convective transport terms focusing on partial rather than ordinary differential equations the navier stokes and convective transport equations are derived from balance equations in both macroscopic and microscopic forms includes examples and problems drawn from comsol software the second edition of this text is now enhanced by the use of finite element methods in the form of examples and extended homework problems a series of example modules are associated with each chapter of the text some of the modules are used to produce examples in the text and some are discussed in the homework at the end of each chapter all of the modules are located online at an accompanying website which is designed to be a living component of the course available on the download tab

Fundamentals of Firefighter Skills and Hazardous Materials Response Includes Navigate Premier Access

2012-06-25 buy solved series of basics of civil mechanical engineering e book for b tech i ii semester students common to all of apj Abdul Kalam Technological University KTU Kerala

Fundamentals and Applications of Ultrasonic Waves, Second Edition 2013-09-25 everything you need to know to get started as an adult learning professional instructing adults is dramatically different from teaching children and the effectiveness of training programs is often dictated by how well they apply the principles of adult learning enhance your programs with the latest research into how adults learn remember and apply knowledge and skills adult learning basics examines the principles of adult learning theory and how they relate to the training function by addressing individual learning competencies organizational learning climate and technology related issues this new edition features the latest research on generational trends microlearning and other td breakthroughs exercises at the end of each chapter help you apply the science and theory to your real talent development challenges elevate your practice with this thorough guide and keep it as an indispensable resource

GIS Fundamentals, Second Edition 2019-10-29 it s a digital world is your training up to speed build your virtual training skills with this new edition of virtual training basics by cindy huggett you don t have to be a tech wizard to follow her tested and proven techniques for enhancing your virtual training design and delivery e learning has been around since the late 90s but it continually evolves sometimes it may seem impossible to keep up but your learners need courses that they can take anywhere organizations need to save money and time on travel and everyone expects your material to be as current as possible take it back to the basics virtual training basics will

get you started with the fundamentals of virtual training and then build you up through design and facilitation with updated material and two new chapters to cover the latest breakthroughs and skills you need to know in this book you will get tips from a variety of seasoned virtual trainers gain insight into the differences and similarities between facilitating in person training and virtual training understand the fundamentals of virtual training design whether you re new to virtual training or looking for ways to update your existing skills virtual training basics 2nd edition will take you there

ROI Basics, 2nd Edition 2009-09-24 updated and revised ethics the basics second edition introduces students to fundamental ethical concepts principles theories and traditions while providing them with the conceptual tools necessary to think critically about ethical issues introduces students to core philosophical problems in ethics in a uniquely reader friendly manner lays out clearly and simply a rich collection of ethical concepts principles theories and traditions that are prevalent in today s society considers western and non western viewpoints and religious interpretations of ethical principles offers a framework for students to think about and navigate through an array of philosophical questions about ethics

Transport Phenomena Fundamentals, Second Edition 2021-03-03 fundamental concepts and skills for nursing 6th edition prepares students to learn the basic concepts and fundamental skills that lpns lvns need to practice in

a number of care settings including hospitals long term care facilities medical offices clinics surgery centres and home care agencies this second south asia edition of dewit s fundamental concepts and skills for nursing is a uniquely featured textbook designed to make a worthy impact on its readers the book is customised as per the revised b sc nursing curriculum prescribed by the indian nursing council inc to meet the learning requirements of undergraduate students nursing professionals aspiring for higher education or career progression will also find this book useful for reference the full colour text contains theoretical nursing concepts step by step skills and procedures and clinical applications to build a strong foundation in the patient care experience the underlying framework of all the chapters pivots around the nursing process and also portrays the concepts like psycho social aspects critical thinking communication skills inter professional collaborations patient family education and cultural integrity discusses more than 80 essential skills and around 30 petite forms of skills with step by step format supported with coloured illustrations along with action rationale format each chapter starts with key terms objectives and has supportive glossary enhanced with stimulating highpoints such as special clinical cues cultural considerations lifespan considerations focused assessment health promotion legal ethical considerations patient education qsen considerations safety alert and think critically boxes includes nursing process framework featuring the application of the nursing process and nursing care plans reinforcing its application in the clinical setting

more than 20 nursing care plans illustrating each step of the nursing process includes concept maps that help students visualise concepts addressed in the text and learn how a condition or response relating to symptoms treatments and side effects can affect more than one body system

Basics of Civil & Mechanical Engineering 2020-09-29 the integration of building services is an important aspect of architectural planning the conceptual design of supply systems and cycles within the building demands a solid grasp of the relationships that underpin the supply and disposal of the element water the focus here is on relations among the individual elements of the cycle from the supply of drinking water consumers inside the building and the disposal of wastewater to the rehabilitation of wastewater the subject of water conservation is present throughout as an overarching framework topics requirements for drinking water supply connections and distribution networks in the building wastewater disposal and use dealing with rainwater resource friendly approaches

Adult Learning Basics, 2nd Edition 2018-04-10 fire safety is an important part of building design it consists of measures to prevent fires from starting to facilitate the rescue of individuals in a burning building and to help firefighters contain a blaze the book explains the general concepts and fundamental issues of fire safety in building design beyond the particulars of local building regulations

Virtual Training Basics, 2nd Edition 2017-05-08 this work studies the combat actions in two operations in lebanon and the gaza strip the writing team focused on the transformation of the idf before and after the second lebanon war of 2006 and in preparation for operation cast lead in the winter of 2008 09 in lebanon the idf pitted ill trained soldiers and ill educated officers who attempted to carry out vague orders and unfamiliar tasks against men with good weapons and a simple mission this was the first open conflict in israel s cold war with iran and its proxy force of hezbollah in what became known as the second lebanon war the idf operation cast lead against hamas in 2008 09 was a small scale affair in comparison to the multi division attack into lebanon in 2006 the former operation however restored confidence in both the government and armed forces in the eyes of the israeli populace the reforms of the year and a half between conflicts paid great dividends originally published by the combat studies institute press u s army

Ethics: The Basics, 2nd Edition 2022-09-26 if ai is outside your field or you know something of the subject and would like to know more then artificial intelligence the basics is a brilliant primer nick smith engineering and technology magazine november 2011 artificial intelligence the basics is a concise and cutting edge introduction to the fast moving world of ai the author kevin warwick a pioneer in the field examines issues of what it means to be man or machine and looks at advances in robotics which have blurred the boundaries topics covered include

how intelligence can be defined whether machines can think sensory input in machine systems the nature of consciousness the controversial culturing of human neurons exploring issues at the heart of the subject this book is suitable for anyone interested in ai and provides an illuminating and accessible introduction to this fascinating subject

deWit's Fundamental Concepts and Skills for Nursing -Second South Asia Edition, E-Book 2017-05-22

fundamentals of nursing by potter and perry is a widely appreciated textbook on nursing foundations fundamentals its comprehensive coverage provides fundamental nursing concepts skills and techniques of nursing practice and a firm foundation for more advanced areas of study this second south asia edition of potter and perry s fundamentals of nursing not only provides the well established authentic content of international standards but also caters to the specific curriculum requirements of nursing students of the region salient features fully compliant to the inc curriculum easy to read interesting and involving disposition which leads the reader through various facets of nursing foundations fundamentals improved layout design and presentation a number of photographs replaced with the indian ones to provide regional feel to the content long answer and short answer questions added at the end of every chapter

Basics Water Cycles 2020-01-20 heavy duty wheeled vehicles hdwvs are all wheel drive vehicles that carry 25

tons or more and have three or more axles they transport heavy bulky cargo such as raw minerals timber construction materials pre fabricated modules weapons combat vehicles and more hdwvs are used in a variety of industries mining logging construction energy and are critical to a country s economy and defense these vehicles have unique development requirements due to their high loads huge dimensions and specific operating conditions hauling efficiencies can be improved by increasing vehicle load capacity however capacities are influenced by legislation road limits and design designing hdwvs differs from other multi purpose all wheel drive vehicles the chassis must be custom designed to suit the customer s particular purpose the number of axles is another variable as well as which ones are driving and which are driven tires are also customizable translated by sae from russian this book narrates the history of hdwvs and presents the theory and calculations required to design them it summarizes results of the authors academic research and experience and presents innovative technical solutions used for electric and hydrostatic transmissions steering systems and active safety of these vehicles the book consists of three parts part one covers hdwv design history and general design methods including basic vehicle design and evaluating hdwv use conditions part one also covers general operation requirements and consumer needs and a brief analysis of structural components of existing hdwvs and prototypes part two outlines information needs for designing hdwvs part three reviews basic theory and

calculation of innovative technical solutions as well as special requirements for component parts this comprehensive title provides the following information about hdwvs history of design and manufacture manufacturers summary design data background data on sample vehicles component calculation examples overview of motion theory which is useful in design and placement of bulky cargo

Basics Fire Safety 2011-07-18 neufert s architects data is an essential reference for the initial design and planning of a building project it provides in one concise volume the core information needed to form the framework for the more detailed design and planning of any building project organised largely by building type it covers the full range of preliminary considerations and with over 6200 diagrams it provides a mass of data on spatial requirements most illustrations are dimensioned and each building type includes plans sections site layouts and design details an extensive bibliography and a detailed set of metric imperial conversion tables are included since it was first published in germany in 1936 ernst neufert s handbook has been progressively revised and updated through 39 editions and many translations this fourth english language edition is translated from the 39th german edition and represents a major new edition for an international english speaking readership reviews of the previous edition neufert s architects data was the first book i bought when i started my studies in architecture it was invaluable for me then and it is still a useful aid in my designs cesar pelli with this thorough

rewrite neufert has produced yet again an invaluable reference book the architects journal

Back to Basics: A Study of the Second Lebanon War and Operation CAST LEAD 2013-03-01 this book attempts to systematise the present interrelationship between fundamental rights and the eu internal market in the field of positive integration its intention is simple to examine the way in which and the extent to which fundamental rights protection is realised through eu internal market legislation to that end the analysis is conducted around four rights or sets of rights data protection freedom of expression fundamental labour rights and the right to health the book assesses not only what substantive level of protection is achieved for these fundamental rights but it also estimates whether there is a fundamental rights culture that informs current legislative practice finally it asks the overarching question whether the current state of harmonisation amounts to a fundamental rights policy the book offers a much more varied picture of the eu s fundamental rights policy in and through the eu internal market than perhaps initially expected moreover it builds the case for a more conscious approach to dealing with and enhancing fundamental rights protection in and through internal market legislation and advocates a leading role for the legislature in the establishment of an internal market that is firmly based on respect for fundamental rights

Artificial Intelligence: The Basics 2017-08-18 buildings with wide spans such as industrial plants and warehouses are usually built with steel the architect must understand the specific material properties and requirements of

steel as a construction material including its static properties which influence dimensioning and profile selection step by step basics steel construction imparts the basic understanding needed for planning with steel as a building material

Potter and Perry's Fundamentals of Nursing: Second South Asia Edition - E-Book 2014-01-27 the charter of fundamental rights of the european union includes in addition to the traditional civil and political rights a large number of rights of an economic or social nature this collection of essays by leading scholars in this field considers the significance of the inclusion of such rights within the eu charter in terms of protection of individual and collective social and economic interests within and between the eu and its member states what differences might it make to eu law and policy both in terms of its substance and in terms of the processes by which it is formed that certain economic and social rights are proclaimed in the eu charter

Heavy-Duty Wheeled Vehicles 2012-03-26 neuroscience fundamentals for communication sciences and disorders second edition is a comprehensive textbook primarily designed for undergraduate neural bases or graduate neuroscience courses in communication sciences and disorders programs csd the text can also be used as an accessible go to reference for speech language pathology and audiology clinical professionals practicing in medical and rehab settings written with an engaging and conversational style the author uses humor and

analogies to explain concepts that are often challenging for students complemented by more than 400 visually rich and beautifully drawn full color illustrations the book emphasizes brain and behavior relationships while also ensuring coverage of essential neuroanatomy and neurophysiology in an integrative fashion with a comprehensive background in the principles processes and structures underlying the workings of the human nervous system students and practitioners alike will be able to better understand and apply brain behavior relationships to make appropriate clinical assessments and treatment decisions extending well beyond traditional neuroanatomy based textbooks this resource is designed to satisfy three major goals provide neuroanatomical and neurophysiological detail that meets the real world needs of the contemporary csd student as they move forward toward clinical practice and into the future where advancements in the field of health and brain sciences are accelerating and contributing more and more each day to all areas of rehabilitation provide clear understandable explanations and intuitive material that explains how and why neuroanatomical systems processes and mechanisms of the nervous system operate as they do during human behavior provide a depth and scope of material that will allow the reader to better understand and appreciate a wide range of evidence based literature related to behavior cognition emotion language and sensory perception areas that all directly impact treatment decisions new to the second edition 40 new full color illustrations reorganization and division of

content from chapters 4 5 and 6 of the previous edition into six new and more digestible chapters a new standalone chapter on the cranial nerves addition of a major section and discussion on the neural bases of swallowing addition of more summary tables and process flowcharts to simplify the text and provide ready made study materials for students revisions to most figures to improve their clarity and coherence with the written material disclaimer please note that ancillary content such as documents audio and video etc may not be included as published in the original print version of this book

Architects' Data 2015-11-05

Fundamental Rights in EU Internal Market Legislation 2017-05-22

Basics Steel Construction 2003-09-10

Economic and Social Rights under the EU Charter of Fundamental Rights 2022-10-13

Neuroscience Fundamentals for Communication Sciences and Disorders, Second Edition

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