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Travel Medicine, 3rd Edition, by Dr. Jay S. Keystone, Dr. Phyllis E. Kozarsky, Dr. David O. Freedman, Dr. Hans D. Nothdurft, and Dr. Bradley A. Connor, prepares you and your patients for any travel-related illness they may encounter. Consult this one-stop resource for best practices on everything from immunizations and pre-travel advice to essential post-travel screening. From domestic cruises to far-flung destinations, this highly regarded guide offers a wealth of practical guidance on all aspects of travel medicine. Consult this title on your favorite e-reader with intuitive search tools and adjustable font sizes. Elsevier eBooks provide instant portable access to your entire library, no matter what device you're using or where you're located. Benefit from the advice of international experts on the full range of travel-related illnesses, including cruise travel, bird flu, SARS, traveler's diarrhea, malaria, environmental problems, and much more. Prepare for the travel medicine examination with convenient cross references for the ISTM "body of knowledge" to specific chapters and/or passages in the book. Effectively protect your patients before they travel with new information on immunizations and emerging and re-emerging disease strains, including traveler's thrombosis. Update your knowledge of remote destinations and the unique perils they present. Stay abreast of best practices for key patient populations, with new chapters on the migrant patient, humanitarian aid workers, medical tourism, and mass gatherings, as well as updated information on pediatric and adolescent patients. Through ten editions, Fox and McDonald's Introduction to Fluid Mechanics has helped students understand the physical concepts, basic principles, and analysis methods of fluid mechanics. This market-leading textbook provides a balanced, systematic approach to mastering critical concepts with the proven Fox-McDonald solution methodology. In-depth yet accessible chapters present governing equations, clearly state assumptions, and relate mathematical results to corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the subject. Each comprehensive chapter includes numerous, easy-to-follow examples that illustrate good solution technique and explain challenging points. A broad range of carefully selected topics describe how to apply the governing equations to various problems, and explain physical concepts to students. Topics include flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery, and more. To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended problems that encourage students to apply fluid mechanics principles to the design of devices and systems. Chapter 1.Green Architecture: An Overview; Chapter 2.Definitions and Operationalizations of Green Architecture; Chapter 3.Brief History of Green Architecture; Chapter 4.Green Technologies: Energy Generation; Chapter 5.Green Technologies: Energy Retention; Chapter 6.Green Materials; Chapter 7.Smart Materials; Chapter 8.Case Studies; Bibliography; Index

Osman Attmannis an architect and associate professorat the College of Architecture and Planning, University of Colorado. Building Systems for interior designers Second Edition Corky Binggeli, asid The updated guide to technical building systems for interior designers As integral members of the building design team, interior designers share an increasingly complex and crucial role. Now revised in its second edition, Building Systems for Interior Designers remains the one go-to resource that addresses the special concerns of the interior designer within the broader context of the rest of the building design team. Building Systems for Interior Designers, Second Edition explains technical building systems and engineering issues in a clear and accessible way to interior designers. Covering systems from HVAC to water and waste to lighting, transportation, and safety, author Corky Binggeli enables interior designers to communicate more effectively with architects, engineers, and contractors; collaborate effectively on projects; and contribute to more accurate solutions for a broad range of building considerations. Among the many improvements in the Second Edition are: A deeper engagement with sustainable building design, giving the interior designer the resources needed to participate as part of a sustainable design team A reshaped structure that enhances the reader's understanding of the material.
Many more illustrations and explanatory captions With a host of features to make the book more up to date, easier to use, and more effective as an instructive guide, Building Systems for Interior Designers, Second Edition is a valuable book for students as well as a practical desktop reference for professionals. This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field. This new edition of Straw Bale Gardens Complete is the only book you need to get started with the revolutionary gardening method that has taken the world by storm. Written by Joel Karsten, the originator of Straw Bale Gardening, this exciting update contains detailed, start-to-finish instructions for growing vegetables in straw anywhere, plus many new ideas and projects to help you enjoy your straw bale experience even more. Whatever your gardening challenge, Straw Bale Gardening holds the solution. Have a small or unusual space? Straw Bale Gardening is perfect for urban, rooftop, and balcony gardens. Contaminated soil? Planting in straw bales eliminates the problem. Are you inundated by weeds? With straw bales, there is no weeding. The advantages of growing a Straw Bale Garden go on and on: they require 75 percent less labor, their raised height makes planting easier, they extend the growing season, prevent disease and insect issues, are portable, hold water well but are impossible to overwater, they create excellent compost, and can be grown 100 percent organically. Among the new subjects: Cultivating mushrooms in straw and straw bales. How to grow plants in hay bales (and how to tell the difference between hay and straw). Tips and ideas for making your straw bale garden more attractive. How to make a cold frame with straw bales. Trellising projects for growing vertically. And much more. Assure your success with Straw Bale Gardening with instructions and advice direct from the inventor of the method. Now in an updated edition, this pioneering and authoritative study considers the profound impact of the growing water crunch on international peace and security as well as possible ways to mitigate the crisis. Although water is essential to sustaining life and livelihoods, geostrategist Brahma Chellaney argues that it remains the world’s most underappreciated and undervalued resource. One sobering fact is that the retail price of bottled water is already higher than the international spot price of crude oil. But unlike oil, water has no substitute, raising the specter of water becoming the next flashpoint for conflict. Water war as a concept may not mesh with the conventional construct of warfare, especially for those who plan with tanks, combat planes, and attack submarines as weapons. Yet armies don’t necessarily have to march to battle to seize or defend water resources. Water wars—in a political, diplomatic, or economic sense—are already being waged between riparian neighbors in many parts of the world, fueling cycles of bitter recrimination, exacerbating water challenges, and fostering mistrust that impedes broader regional cooperation and integration. The danger is that these water wars could escalate to armed conflict or further limit already stretched food and energy production. Writing in a direct, nontechnical, and engaging style, Brahma Chellaney draws on a wide range of research from scientific and policy fields to examine the different global linkages between water and peace. Offering a holistic picture and integrated solutions, his book has become the recognized authority on the most precious natural resource of this century and how we can secure humankind’s water future. Includes list of replacement pages. From the Publisher: This expansive encyclopedia breaks new ground, giving definition and focus to an urgent and much-talked-about topic that is extraordinarily wide ranging and all too often misunderstood. As the first major reference work in its field, the three comprehensive volumes span the entire scope of sustainability from ecological concepts to financial concerns to public policy and community action, giving readers a solid foundation from which to think critically about efforts to make a more sustainable world. The Encyclopedia of Sustainability comprises three volumes, each dedicated to one of three equally important contexts in which the term is used: environment and ecology, business and economics, and equity and fairness. Each volume provides authoritative but accessible coverage of basic concepts and terms, as well as policy initiatives, controversies, and future trends. Volumes also include biographical sketches of important contributors to sustainability efforts from the scientific, economic, public policy, and activist realms, plus extensive listings of print and online resources for further exploration. This thought-provoking book is about the use of solar energy at our home. It is about a solution to the country’s most urgent problem—power shortage. The book details basic principles, usage, and current development and growth of solar energy in India and around the world, with add-on chapters about other renewables, climate change, energy efficiency, green buildings, electrical vehicles, etc. We are proud to present this first-of-its-kind book to be published in India. Even though a few publications in the subject are available today, most are pure technical for a niche segment. This book is now unique in India with its broad range of interesting subjects of mass appeal related to deployment of solar energy, its importance in our daily life, and other related topics and happenings. The introductory chapter of the book looks into the history of solar energy. The next couple of chapters get more specific on solar energy and its usage. The amazing range of products that work on solar energy, which gives us an alternative to grid power, is briefed here next. The next section of the book talks about climate change, its impact on our ecology, and an exhaustive list of organizations working to combat climate change. This is followed by the solar energy utilization around the world. Indians power requirements is then followed by the status of solar power in India, the aggressive action plan of the government of India, a serious look on why to minimize the use of grid power, and then tips for selecting and installing the right solar system for your use. The wonderful concept of the world’s first carbon-neutral city comes next, followed by a chapter on the importance of energy efficiency. The world of renewables has an astonishing range of power-generation techniques, and this is detailed in the next chapter. This is followed by the chapter on green buildings. The main book comes to a landing with a chapter on one of the most promising concept—electric vehicles. This book on contemporary science and its imminent use is a well-thought-out and prepared collection of useful information for every discerning reader to enjoy reading and improve his/her knowledge on the subject. “GPO: U.S. Government Printing Office: 2012–677–011/R9860 Region No. 10”–p. 152. The European Photovoltaic Solar Energy Conferences are dedicated to accelerating the impetus towards sustainable development of global PV markets. The 16th in the series, held in Glasgow UK, brought together more than 1500 delegates from 72 countries, and provided an important and vital forum for information exchange in the field. The Conference Proceedings place on record a new phase of market development and scientific endeavour in the PV industry, representing current and innovative thinking in all aspects of the science, technology, markets and business of photovoltaics. In three volumes, the Proceedings present some 790 papers selected for presentation by the scientific review committee of the

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16th European Photovoltaic Solar Energy Conference. The comprehensive range of topics covered comprise: * Fundamentals, Novel Devices and New Materials * Thin Film Cells and Technologies * Space Cells and Systems * Crystalline Silicon Solar Cells and Technologies * PV Integration in Buildings * PV Modules and Components of PV Systems * Implementation, Strategies, National Programs and Financing Schemes * Market Deployment in Developing Countries These proceedings are an essential reference for all involved in the global PV industry- scientists, researchers, technologists and those with an interest in global market trends. The conference was organised by WIP-Renewable Energies, Munich, Germany.an atypical story of two children who under terrifying stress change their lives and the world around them and eventually the galaxyFeaturing captivating photos and illustrations from National Geographic, Miller/Spoolman’s LIVING IN THE ENVIRONMENT, 20th edition, empowers you with the knowledge and inspiration to make a difference in solving today's environmental issues. Emphasizing sustainability, the book presents clear introductions to multiple environmental problems along with balanced evaluations of potential solutions. Up-to-date coverage includes no-till farming, proposed changes to the Endangered Species Act, CRISPR gene editing, the phosphate crisis, genetically engineered foods, lithium supplies for batteries, threats to U.S. recycling, the use of economics to slow climate change and more. A focus on learning from nature highlights principles and applications of biomimicry. Exercises throughout sharpen your critical-thinking skills, while Core Case Studies give you practice applying what you've learned. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The report gives a state-of-the-art overview of policies, regulations and incentives for the sustainable use of solar-powered irrigation technologies (SPIs) around the world. SPIs offer a viable, low-tech energy solution for irrigated agriculture, providing a reliable source of energy in remote areas, contributing to rural electrification, reducing energy costs for irrigation and enabling low emission agriculture. Nevertheless, SPIs have a significant initial investment cost and require innovative financing models to overcome this barrier to adoption, especially for small-scale farmers. Technical knowledge and service infrastructure is needed to ensure that the systems run effectively. Moreover, SPIs – if not adequately managed - bear the risk of fostering unsustainable water use as lower energy costs may lead to over-abstraction of groundwater. This report looks at how different countries work to create an enabling environment for SPI technologies, while managing the risks that come with it. Take your straw bale gardening to the next level—in more places, with new products, and even sometimes skipping the straw entirely—with Straw Bale Gardens Complete. The reception and enthusiasm for straw bale gardening, introduced in 2013, has proved revolutionary in vegetable growing. Why? Because the bold promises in the book are kept: grow vegetables anywhere, earlier in the year, with no weeding. Gardeners everywhere are excited. Straw bale gardening works! In just the short amount of time that has passed, the gardening world and Joel Karsten himself have learned even more about how to apply this method in just about any environment: on a city balcony, in a rocky outpost, in a desert, and even in the tundra of Alaska. Straw Bale Gardens Complete contains all of the original information that has set the gardening world on fire. But it also goes much deeper, with nearly 50 pages of all-new advice and photos on subjects such as growing in a tight urban setting, making your straw bale garden completely organic, and using new fertilizers and conditioning products. There is even information on using straw bale techniques to grow veggies in other organic media for anyone who has a hard time finding straw. Fans of Straw Bale Gardens will not want to miss adding Straw Bale Gardens Complete to their gardening library. There is, literally, nothing else like it! Micro Irrigation Management: Technological Advances and Their Applications, the fifth book in the Innovations and Challenges in Micro Irrigation book series, is a valuable reference volume on micro irrigation and water management for professional training institutes, technical agricultural centers, irrigation centers, agricultural extension service, and other agencies who work with micro irrigation programs. With an international focus, this new book focuses on applications of solar energy in micro irrigation and other important technological advances. It includes case studies and illustrative examples on drip irrigation design. The use of plastics in agriculture – to increase crop output, improve food quality and improve sustainability – has grown substantially in both quantity and the range of applications. Many of the early researchers that conducted field research in the use of plastics in agriculture have either retired or are deceased. These early pioneers in plastic culture research, the basis of plant production using plastics, were very creative and persistent in discovering uses of plastics in agricultural applications. A Guide to the Manufacture, Performance, and Potential of Plastics in Agriculture contains both references not only to their accomplishments but also their publications. The book discusses plasticulture—the basis of plant production using plastics – including topics such as plastic mulch, row covers, drip irrigation, and high/low tunnels. It covers the process of producing polyethylene and polypropylene plastics that are used in plant and animal production agriculture, and the many uses of plastics in all aspects of agriculture, including plastic greenhouses, rigid mold plastics, disposal of plastics, and plastics in animal production. This book introduces a range of academics and industrial practitioners to the impact of plastics in agriculture, both historically and in a range of current applications. It also provides new perspectives on future developments to enable further research and application. It is an invaluable reference on the use of polyethylene, polypropylene films, and such products in all aspects of agricultural production. Discusses plastic culture, the basis of plant production using plastics, including topics such as plastic mulch, row covers, drip irrigation, and high/low tunnels. Contains 10 chapters that cover the process of producing polyethylene and polypropylene plastics that are used in agriculture. Covers the many uses of plastics in all aspects of agriculture, including plastic greenhouses, rigid mold plastics, disposal of plastics, and plastics in animal production. The new student edition of the definitive reference on landscape architecture Landscape Architectural Graphic Standards, Student Edition is accondensed treatment of the authoritative Landscape Architectural Graphic Standards, Professional Edition. Designed to give students the critical information they require, this is an essential reference for anyone studying landscape architecture and design. Formatted to meet the serious student's needs, the content in this Student Edition reflects topics covered in accredited landscape architecture programs, making it an excellent choice for a required text in landscape architecture, landscape design, horticulture, architecture, and planning and urban design programs. Students will gain an understanding of all the critical material they need for the core classes required by all curriculums, including: * Construction documentation * Site planning * Professional practice * Site grading and earthwork * Construction principles * Water supply and management * Pavement and structures in the landscape * Parks and recreational spaces * Soils, asphalt, concrete, masonry, metals, wood, and recreational surfaces * Evaluating the environmental and human health impacts of materials Like Landscape...
Architectural Graphic Standards, this StudentEdition provides essential specification and detailing information on the fundamentals of landscape architecture, including sustainable design principles, planting (including green roofs), stormwater management, and wetlands construction and evaluation. In addition, expert advice guides readers through important considerations such as material life cycle analysis, environmental impacts, site security, hazard control, environmental restoration and remediation, and accessibility. Visit the Companion web site: wiley.com/go/landscapearchitecturalgraphicstandards Solar power for pumping groundwater has a vast potential for improving the sustainability of water supply schemes. However, a lack of knowledge is holding back their adoption. This book bridges this gap to equip engineers and technicians with the knowledge for design, implementation and operation of sustainable solar powered water schemes. A wildly adventurous novel with love romance and epic battles in a futuristic setting with survival tips for the adventurous person. This new book, the fourth volume in the Innovations and Challenges in Micro Irrigation book series, examines the potential of solar energy and other emerging energy technologies in micro irrigation to create sustainable energy sources. The authors discuss a variety of innovative micro irrigation system designs, with a special focus on solar energy and photovoltaic (PV) energy. The #1 visual guide to building construction principles, updated with the latest materials, methods, and systems For over four decades, Building Construction Illustrated has been the leading visual guide to the principles of building construction. Filled with rich illustrations and in-depth content by renowned author Francis D.K. Ching, it offers students and practicing professionals the information needed to understand concepts in residential and commercial construction, architecture, and structural engineering. This Sixth Edition of Building Construction Illustrated has been revised throughout to reflect the latest advancements in building design, materials, and systems, including new chapters on design, building codes, modular foundation systems, lighting sources, mass timber materials, and more. It features new illustrations and updated information on sustainability and green building, insulation materials, and fire-rated wall and floor assemblies. This respected, industry standard guide remains as relevant as ever, providing the latest in codes and standards requirements, including IBC, LEED, and CSI MasterFormat. This Sixth Edition: The leading illustrated guide to building construction fundamentals, written and detailed in Frank Ching's signature, illustrative style Includes all new sections on resilient design; diaphragms; modular foundation systems; smart façade systems; lighting sources; mass timber materials; and more. Offers instructors access to an Instructor's Manual with review questions Building Construction Illustrated, Sixth Edition is an excellent book for students in architecture, civil and structural engineering, construction management, and interior design programs. Ching communicates these core principles of building construction in a way that resonates with those beginning their education and those well into their careers looking to brush up on the basics. Building Construction Illustrated is a reliable, lifelong guide that practicing architects, engineers, construction managers, and interior designers, will turn to time and again throughout their careers. Standalone Photovoltaic (PV) Systems for Disaster Relief and Remote Areas explores the increased demand for energy, including clean energy alternatives and the ways that solar energy is fast becoming a vital source for meeting peak demand, a solution for energy demand in disaster and remote areas, and a viable source to meet emerging energy security needs. The book provides a detailed overview of PV systems and applications for disaster relief and remote areas, and includes a guide on how to provide electricity during outages, along with important discussions on the need for increasing the resilience of the grid. The differences and requirements for standalone, mobile, and portable PV systems are discussed, along with how systems can be deployed, transported, and used in remote areas. In addition, the book discusses the use of solar PV systems to create environmentally friendly power systems for remote communities that can be operated independently, also comparing the costs, emissions, and practical applications of other technologies. Types of natural disasters, their effect on peoples' lives, on world economy, impact on electric grid and costs of power outages Energy Needs in the aftermath of disasters and remote areas both in developed and developing Countries, including how PV systems can provide electricity, affordability, with resilience and reducing grid impact by way of community solar and solar microgrid. Detailed description of the types and components of standalone photovoltaic systems, modeling and simulation and performance analysis New initiatives, programs and case studies for providing solar-generated electricity to low-income people both in the United States and the developing world at low cost Examples of assembling one's own PV module and dye sensitized solar cells, results, databases and industry standards This textbook focuses specifically on the combined topics of irrigation and drainage engineering. It emphasizes both basic concepts and practical applications of the latest technologies available. The design of irrigation, pumping, and drainage systems using Excel and Visual Basic for Applications programs is explained for both graduate and undergraduate students and practicing engineers. The book emphasizes environmental protection, economics, and engineering design processes. It includes detailed chapters on irrigation economics, soils, reference evapotranspiration, crop evapotranspiration, pipe flow, pumps, open-channel flow, groundwater, center pivots, turf and landscape, drip, orchards, wheel lines, hand lines, surfaces, greenhouse hydroponics, soil water movement, drainage systems design, drainage and wetlands contaminant fate and transport. It contains summaries, homework problems, and color photos. The book draws from the fields of fluid mechanics, soil physics, hydrology, soil chemistry, economics, and plant sciences to present a broad interdisciplinary view of the fundamental concepts in irrigation and drainage systems design. Der Tagungsband enthält die wissenschaftlichen Beiträge der Konferenz "Mikro-Perspektiven auf dezentrale Energieversorgung" vom 23. bis 24.4.2015 in Bangalore, Indien. Die Beiträge umfassen eine große Bandbreite an Themen von technischen Herausforderungen dezentraler Energieversorgung über Konzepte für DC Micro Grids bis zu Finanzierungs- und Geschäftsmodellen für die Implementierung dieser innovativen Technologien. Weiterhin enthält der Band Beiträge zu Planungs- und Governance-Strategien, historische Analysen der Infrastrukturentwicklung und Technologie-Bewertung. Mit Fallstudien zu dezentraler Energieversorgung von Indien, Bangladesch, Ägypten, Äthiopien, Kenia, Nigeria, Tansanien und Brasilien geben die Artikel einen guten Überblick über die globale Entwicklung in diesem Sektor. The Proceedings present the scientific contributions of the Conference "Micro Perspectives for Decentralized Energy Supply" from 23rd till 24th of April in Bangalore, India. The papers cover a broad range of topics ranging from technical challenges of decentralized energy supply and concepts for
solar DC micro grids till financing and business models for the implementation of those innovative technologies. The volume also contains contributions about planning and governance strategies, historical analyses of the infrastructural development and technology assessments. With case studies on decentralised energy supply from e.g. India, Bangladesh, Egypt, Ethiopia, Kenya, Nigeria, Tanzania and Brazil the papers give a good overview of the development of this sector all over the world. Meeting a need in the marketplace for information on how to operate a sustainable facility and reduce carbon emissions, the Green Facilities Handbook clearly explains why green business is good business and delineates practical strategies to green your operations in energy and management. The book explores issues in the greening of a facility, including janitorial considerations, fuel choices for fleets, and recycling. Additional information is provided on carbon reduction terminology, monitoring and reporting, and carbon trading as well as offset strategies. Special bonus chapters include valuable information on financing and procedures for "green" marketing. Increasing the efficiency of water use and enhancing agricultural water productivity at all levels of the production chains are becoming priorities in a growing number of countries. In particular, shifting to modern on-farm irrigation practices can contribute to a substantial increase in both water use efficiency and water productivity. The objective of this handbook is to provide a practical guide on the use of pressurised irrigation techniques to farmers, irrigation technicians, and extension workers in the field. In this second edition, the handbook has been considerably revised, including new chapters on low-cost drip irrigation and pipe distribution systems for smallholders. (Also available in French)

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