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AOZBQJ - HUANG SKINNER

The bible of solar engineering that translates solar energy theory to practice, revised and updated The updated Fifth Edition of Solar Engineering of Thermal Processes, Photovoltaics and Wind contains the fundamentals of solar energy and explains how we get energy from the sun. The authors—noted experts on the topic—provide an introduction to the technologies that harvest, store, and deliver solar energy, such as photovoltaics, solar heaters, and cells. The book also explores the applications of solar technologies and shows how they are applied in various sectors of the marketplace. The revised Fifth Edition offers guidance for using two key engineering software applications, Engineering Equation Solver (EES) and System Advisor Model (SAM). These applications aid in solving complex equations quickly and help with performing long-term or annual simulations. The new edition includes all-new examples, performance data, and photos of current solar energy applications. In addition, the chapter on concen-

trating solar power is updated and expanded. The practice problems in the Appendix are also updated, and instructors have access to an updated print Solutions Manual. This important book:

- Covers all aspects of solar engineering from basic theory to the design of solar technology
- Offers in-depth guidance and demonstrations of Engineering Equation Solver (EES) and System Advisor Model (SAM) software
- Contains all-new examples, performance data, and photos of solar energy systems today
- Includes updated simulation problems and a solutions manual for instructors

Written for students and practicing professionals in power and energy industries as well as those in research and government labs, Solar Engineering of Thermal Processes, Fifth Edition continues to be the leading solar engineering text and reference.

- New York Times bestseller
- The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world

“At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it.

Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope.” —Per Espen Stoknes, Author, *What We Think About When We Try Not To Think About Global Warming* “There’s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom.” —David Roberts, *Vox* “This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook.” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth’s warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary cri-

sis as an opportunity to create a just and livable world.

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 resilient design, diagrids, modular foundation systems, smart façade 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; diagrids; modular foundation systems; smart façade types and systems; lighting sources and systems; and mass timber materials, cross laminated timber (CLT) and nail laminated timber (NLT) Revised to reflect that latest updates in codes and standards requirements: 2018 International Building Code (IBC), LEED v4, and CSI MasterFormat 2018 Includes updated information on sustainability and green building; insulation materials; stair uses; stoves and

inserts; and fire-rated wall and floor assemblies 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.

Updated third edition introduces undergraduates to the Solar System's bodies, the processes upon and within them, and their origins and evolution.

Whether you are preparing for a career in the building trades or are already a professional contractor, this practical book will help you develop the knowledge and skills you need to merge renewable heat sources (such as solar thermal collectors, hydronic heat pumps, and wood-fired boilers) with the latest hydronics hardware and low temperature distribution systems to assemble efficient and reliable heating systems. Easy to understand and packed with full color illustrations that provide detailed piping and control schematics and how to information you'll use on every renewable energy system, this one-of-a-kind book will help you diversify your expertise over a wide range of heat sources. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introducing a Reliable Green Technology That Can Help Improve

System Performance Solely centered on photovoltaic (PV) system sizing and the tools used for PV system analysis and design, Photovoltaic System Design: Procedures, Tools and Applications emphasizes the importance of using solar PV technologies for a number of end-use applications, and examines growing interest in solar PV-based projects on a global scale. Written for the system designer/project developer/manufacturer dedicated to correctly sizing a PV system, the book outlines various aspects of PV technology, applications, and programs. It describes key attributes, system design requirements, influence on climatic and site-specific parameters, utilization of simulation procedures, and expected performance. The author includes actual case studies for system designing procedures adopted by various companies and provides a framework for working through both direct and indirect variables under the actual system designing phase. A vital resource essential to your collection, this book: Touches upon the role of renewable energy technologies in a holistic energy scenario Makes a clear categorization of off-grid and on-grid PV applications and discusses advantages and limitations Considers the potential of solar radiation availability Introduces PV system sizing procedures via the modern use of simulation softwares Presents an analysis of actual PV power plant sites when designed via the use of simulation software Determines the weak links in a PV system Brings out the importance of capacity building initiatives vis-à-vis the available range of PV simulation software, tools, and procedures Photovoltaic System Design: Procedures, Tools and Applications provides a clear understanding of the issues that can affect the operation and smooth running of PV facilities and aids in determining photovoltaic system sizing proce-

dures from a variety of end-use considerations. The book encompasses civil, mechanical, electrical, geotechnical, and power systems engineering and is useful to industry professionals involved in solar power plant design.

This study presents options to fully unlock the world's vast solar PV potential over the period until 2050. It builds on IRENA's global roadmap to scale up renewables and meet climate goals.

Official website: <http://www.mobile-solarpower.com> Finally an easy approach to mobile solar design and installation: -Add a solar system to your RV, Van, Trailer, Car or Boat -Step-by-step instructions that anyone can follow -Beginner/Intermediate/Advanced methods for calculating your solar system. You choose! -Tips and tricks that will save you time and money -You can read this book from start to finish, or use it as a reference -Large, easy to understand pictures And much more! I promise that this book will be worth your time, or you will get your money back. There are many solar system books on the market that are just too hard to understand, and impractical. Tired of googling every question you have about setting up your own solar system? Then give this book a chance. It will show you everything that you need to know, from start to finish.

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

Do you dream an eco-friendly home even if you are not expert in electrical systems? If you want to live off-grid you are in the right

place. If what has always stopped you is the worry of initial investments, put these thoughts aside. With this pocket manual you will discover how to save thousands of dollars in the long run by having a smart home. Our planet is suffering, it will be explained why solar energy is the most beneficial and renewable energy source to get you excited about incorporating it into your life. Solar Power for Beginners is the complete guide that will allow you to achieve all this, from the necessary supplies to the connection of all the tools. The step-by-step solution illustrated and written in a simple and direct way to effectively help anyone who wants to approach this technique. In details you'll find: Why you should avoid other sources of energy in favor of solar power. Buying guide for the equipment (batteries, panels, inverter) and sizing requirements Longevity of materials and how to protect them The quick and safely technique to design, install and connect all the necessary tools Tips and tricks for the better set up Advantages and disadvantages of the best products available on the market What happens if you move taking the equipment with you? Specific environments that are most conducive to solar ... and much more! Even if you have failed until no trying with complex manuals and impractical instructions, this DIY book will finally allow you to hit the target without pain. Everyone can live greener, scroll to the top and get your copy right now.

Know nothing about 12 volt power & solar panels? Then this is the right book for you! Learn how to power laptops, TV's, fans, power tools, DVD's, music, mobile phones and so much more straight from a power supply that you built. From complete beginner knowing nothing to seasoned off grid expert in a couple of days if not sooner. Learning the basics of providing your own pow-

er for your boat, shed, caravan, mobile home etc, has never been made easier for you to understand and master. Simple easy explanations, with no technical jargon and masses of diagrams, photographs and explanations. Making your learning experience an easier, quicker and more pleasant experience for you. Written from the complete beginner's point of view this book will guide you through everything that you need to know in order to realise your off grid dreams today. Only including the essential things that you need to know and throwing the technical gibberish that confuses most beginner's, makes this book a must for newbie's & the confused. Look no further your off grid knowledge is contained within this book, enjoy the experience of learning and living your dream. Get the book & live the dream.

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use

and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

The HCD Toolkit was designed specifically for NGOs and social enterprises that work with impoverished communities in Africa, Asia, and Latin America.

The passive house standard is developing more and more into the international key currency of energy-efficient construction. Passive houses are being erected in almost all parts of the world and for all types of users. "Plus energy" buildings and entire zero-energy districts show that the passive house standard is also a sound basis for advanced efficiency strategies. At the same time, many architects are unsure about the specifics: What do passive houses really deliver, and what errors need to be avoided during planning? The book "Passive House Design" gives readers confidence in dealing with the passive house standard from the very first design draft. It shows how much scope for design there is in passive houses and explains design strategies that lead to better passive buildings. Detailed documentations of both residential and non-residential buildings illustrate how design, construction and building technology combine in passive houses. Chapters on building physics, building services engineering and energy balanc-

ing provide the required detailed knowledge for being able to implement your own passive house projects.

This book is a guide to a sustainable design process that moves from theory, to site and energy use, to building systems, and finally to evaluation and case studies, so you can integrate design and technology for effective sustainable building. Kuppaswamy lyengar shows you how to get it right the first time, use free energy systems, and utilise technologies that minimize fossil fuel use. Each chapter has a sustainable design overview, technical details and strategies marked by clear sections, a summary, and further resources. Heavily illustrated with charts, tables, drawings, photographs, and case studies, the book shows technologies and concepts integrated into cohesive project types, from small and large office spaces to single and multiuse residences, hospitals, schools, restaurants, and warehouses to demonstrate implementing your designs to meet clients' needs now and for the future. Includes an overview of alternate assessment and evaluation systems such as BREEAM, CASBEE, GBTool, Green Globes alongside LEED, ECOTECT, energy 10, HEED and eQuest simulation programs. The guide reveals the importance of the building envelope—walls, superstructure, insulation, windows, floors, roofs, and building materials—on the environmental impact of a building, and has a section on site systems examining site selection, landscape design, thermal impact, and building placement.

Advances in Renewable Energies and Power Technologies: Volume 1: Solar and Wind Energies examines both the theoretical and practical elements of renewable energy sources, such as photovoltaics, solar, photothermal and wind energies. Yahyaoui and a team of expert contributors present the most up-to-date informa-

tion and analysis on renewable energy generation technologies in this comprehensive resource. Covers the principles and methods of each technology, an analysis of their implementation, management and optimization, and related economic advantages and limitations. Features recent case studies and models of each technology. A valuable resource for anyone working in the renewable energy field or wanting to learn more about theoretical and technological aspects of the most recent inventions and research in the field. Offers a comprehensive guide to the most advanced contemporary renewable power generation technologies written by a team of top experts Discusses the energy optimization, control and limitations of each technology, as well as a detailed economic study of the associated costs of implementation and management Includes global case studies and models to exemplify the technological possibilities and limitations of each power generation method

The authors of the international bestseller Business Model Generation explain how to create value propositions customers can't resist Value Proposition Design helps you tackle the core challenge of every business — creating compelling products and services customers want to buy. This highly practical book, paired with its online companion, will teach you the processes and tools you need to create products that sell. Using the same stunning visual format as the authors' global bestseller, Business Model Generation, this sequel explains how to use the "Value Proposition Canvas" to design, test, create, and manage products and services customers actually want. Value Proposition Design is for anyone who has been frustrated by new product meetings based on

hunches and intuitions; it's for anyone who has watched an expensive new product launch fail in the market. The book will help you understand the patterns of great value propositions, get closer to customers, and avoid wasting time with ideas that won't work. You'll learn the simple process of designing and testing value propositions, that perfectly match customers' needs and desires. In addition the book gives you exclusive access to an online companion on Strategyzer.com. You will be able to assess your work, learn from peers, and download pdfs, checklists, and more. Value Proposition Design is an essential companion to the "Business Model Canvas" from Business Model Generation, a tool embraced globally by startups and large corporations such as MasterCard, 3M, Coca Cola, GE, Fujitsu, LEGO, Colgate-Palmolive, and many more. Value Proposition Design gives you a proven methodology for success, with value propositions that sell, embedded in profitable business models."

Understanding Passivhaus is a simple guide to the Passivhaus standard. The book explains the principles behind Passivhaus thinking, and explores numerous construction methods for achieving the Passivhaus standard. What is Passivhaus? Why design a Passivhaus? PHPP Certification Principles of Passivhaus Design Technical requirements Building fabric Form factor Insulation Thermal bridge Airtightness and air leakage Building services and ventilation Windows Solar design Shading Summer ventilation Roof lights Types of Construction Masonry construction Timber frame Structural Insulated Panels (SIPS) Insulated Concrete Formwork (ICF) Mixed methods of construction Construction Details Solid concrete with rendered external insulation Insulated concrete formwork Solid masonry with larsen trusses Masonry cavity

wall Timber frame with larsen trusses Timber I joist frame SIPS construction Timber frame with external render Case Studies A selection of wonderful examples of Passivhaus designs and construction methods, with more case studies added for this second edition.

Explains how solar panels work, how they can be used, and the steps you need to take to successfully design and install a solar electric system from scratch using photovoltaic solar panels. The accompanying website includes solar calculators and tools to simplify your solar electricity installation.

Essential site planning and design strategies, up-to-date with the latest sustainable development techniques Discover how to incorporate sound environmental considerations into traditional site design processes. Written by a licensed landscape architect with more than 20 years of professional experience, this authoritative guide combines established approaches to site planning with sustainable practices and increased environmental sensitivity. Fully revised and updated, Site Planning and Design Handbook, Second Edition discusses the latest standards and protocols-including LEED. The book features expanded coverage of green site design topics such as water conservation, energy efficiency, green building materials, site infrastructure, and brownfield restoration. This comprehensive resource addresses the challenges associated with site planning and design and lays the groundwork for success. Site Planning and Design Handbook, Second Edition explains how to: Integrate sustainability into site design Gather site data and perform site analysis Meet community standards and expectations Plan for pedestrians, traffic, parking, and open space Use grading techniques to minimize erosion and maximize site

stability Implement low-impact stormwater management and sewage disposal methods Manage brownfield redevelopment Apply landscape ecology principles to site design Preserve historic landscapes and effectively utilize vegetation

Instructables is back with this inspiring book focused on a series of projects designed to get you thinking creatively about going green. Twenty Instructables illustrate just how simple it can be to make your own backyard chicken coop, or turn a wine barrel into a rainwater collector. Here, you will learn to: Clip a chicken's wings Power your lawn mower with solar power Create a chicken tractor for the city Water your garden with solar power Build a thermoelectric lamp Create an algae bioreactor from water bottles And much more! Illustrated with dozens of full-color photographs per project accompanying easy-to-follow instructions, this Instructables collection utilizes the best that the online community has to offer, turning a far-reaching group of people into a mammoth database churning out ideas to make life better, easier, and, in this case, greener, as this volume exemplifies.

Passive is the new green. Passive Houses—well insulated, virtually airtight buildings—can decrease home heating consumption by an astounding 90 percent, making them not only an attractive choice for prospective homeowners, but also the right choice for a sustainable future. The Greenest Home showcases eighteen of the world's most attractive Passive Houses by forward-thinking architects such as Bernheimer Architecture, Olson Kundig Architects, and Onion Flats, among many others. Each case study consists of a detailed project description, plans, and photographs. An appendix lists helpful technical information. Including a mix of

new construction and retrofit projects built in a variety of site conditions, The Greenest Home is an inspiring sourcebook for architects and prospective homeowners, as well as a useful tool for students, and builders alike.

The updated, cornerstone engineering resource of solar energy theory and applications. Solar technologies already provide energy for heat, light, hot water, electricity, and cooling for homes, businesses, and industry. Because solar energy only accounts for one-tenth of a percent of primary energy demand, relatively small increases in market penetration can lead to very rapid growth rates in the industry???which is exactly what has been projected for coming years as the world moves away from carbon-based energy production. Solar Engineering of Thermal Processes, Third Edition provides the latest thinking and practices for engineering solar technologies and using them in various markets. This Third Edition of the acknowledged leading book on solar engineering features: Complete coverage of basic theory, systems design, and applications Updated material on such cutting-edge topics as photovoltaics and wind power systems New homework problems and exercises

"Whether you covet a renovated Airstream or a sprawling, modern stucco, desert has become the new beachfront when it comes to prime real estate. Artist iO Tillett Wright captures this specific culture shared all over the world of desert-living, from Texas and California in the United States to Chile, Morocco, and Australia. The detailed overview of the lifestyle is what sets this book apart. Featuring classic, well-known desert homes like Georgia O'Keefe's in Abiquiu, New Mexico alongside more modern homes like The Solar House in Marfa, Texas, Oasis is the definitive guide to a

longstanding and still growing trend in home design. With Casey Dunn's stunning photography, you'll get a behind-the-scenes look at the most interesting builders, creators, and business owners who are pioneering this unique lifestyle. If you live in the desert and are creating your own oasis or if you're simply inspired by the modern yet laid-back style, you'll be able to harness the beauty of the desert wherever you are"--

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

"Provides in-depth design recommendations and proven, cost effective, and reliable solutions for health care HVAC design that provide low maintenance cost and high reliability based on best practices from consulting and hospital engineers with decades of experience in the design, construction, and operation of health care facilities"--

In order to meet UK Carbon reduction commitments for 2020 and 2050 building owners will be required to upgrade their buildings to meet an increasingly stringent set of energy performance requirements. In the absence of any clear advice from UK Government on how this can be achieved, the EnerPHit standard offers a very clear methodology. This is a practical guide that gives architects the tools to retrofit buildings to the highest EnerPHit standard. It equips the reader with the key information on EnerPHit (as the most effective benchmark for performance), the practical know-how and tips to ensure effective retrofit throughout all Plan

of Work stages of a project to the EnerPHit standard. Backed with real-life case studies, it enables you to understand how to achieve successful outcomes tailored to suit available budgets and programmes.

Backpacker brings the outdoors straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more often. The authority on active adventure, Backpacker is the world's first GPS-enabled magazine, and the only magazine whose editors personally test the hiking trails, camping gear, and survival tips they publish. Backpacker's Editors' Choice Awards, an industry honor recognizing design, feature and product innovation, has become the gold standard against which all other outdoor-industry awards are measured.

This handbook serves as a guide to deploying battery energy storage technologies, specifically for distributed energy resources and flexibility resources. Battery energy storage technology is the most promising, rapidly developed technology as it provides higher efficiency and ease of control. With energy transition through decarbonization and decentralization, energy storage plays a significant role to enhance grid efficiency by alleviating volatility from demand and supply. Energy storage also contributes to the grid integration of renewable energy and promotion of microgrid. Praise for the first edition: "This excellent text will be useful to every system engineer (SE) regardless of the domain. It covers ALL-relevant SE material and does so in a very clear, methodical-fashion. The breadth and depth of the author's presentation of SE principles and practices is outstanding." -Philip Allen This textbook presents a comprehensive, step-by-step guide to System En-

engineering analysis, design, and development via an integrated set of concepts, principles, practices, and methodologies. The methods presented in this text apply to any type of human system -- small, medium, and large organizational systems and system development projects delivering engineered systems or services across multiple business sectors such as medical, transportation, financial, educational, governmental, aerospace and defense, utilities, political, and charity, among others. Provides a common focal point for "bridging the gap" between and unifying System Users, System Acquirers, multi-discipline System Engineering, and Project, Functional, and Executive Management education, knowledge, and decision-making for developing systems, products, or services. Each chapter provides definitions of key terms, guiding principles, examples, author's notes, real-world examples, and exercises, which highlight and reinforce key SE&D concepts and practices. Addresses concepts employed in Model-Based Systems Engineering (MBSE), Model-Driven Design (MDD), Unified Modeling Language (UMLTM) / Systems Modeling Language (SysMLTM), and Agile/Spiral/V-Model Development such as user needs, stories, and use cases analysis; specification development; system architecture development; User-Centric System Design (UCSD); interface definition & control; system integration & test; and Verification & Validation (V&V). Highlights/introduces a new 21st Century Systems Engineering & Development (SE&D) paradigm that is easy to understand and implement. Provides practices that are critical staging points for technical decision making such as Technical Strategy Development; Life Cycle requirements; Phases, Modes, & States; SE Process; Requirements Derivation; System Architecture Development, User-Centric System Design (UCSD); En-

gineering Standards, Coordinate Systems, and Conventions; et al. Thoroughly illustrated, with end-of-chapter exercises and numerous case studies and examples, Systems Engineering Analysis, Design, and Development, Second Edition is a primary textbook for multi-discipline, engineering, system analysis, and project management undergraduate/graduate level students and a valuable reference for professionals.

Pretty Good House provides a framework and set of guidelines for building or renovating a high-performance home that focus on its inhabitants and the environment--but keeps in mind that few people have pockets deep enough to achieve a "perfect" solution. The essential idea is for homeowners to work within their financial and practical constraints both to meet their own needs and do as much for the planet as possible. A Pretty Good House is: * A house that's as small as possible * Simple and durable, but also well designed * Insulated and air-sealed * Above all, it is affordable, healthy, responsible, and resilient.

This introductory volume to Alexander's other works, A Pattern of Language and The Oregon Experiment, explains concepts fundamental to his original approaches to the theory and application of architecture.

Do you have what it takes to live tiny? Take the first step to achieving the dream of designing, building, and living in a tiny house (typically between 100 - 400 square feet). Idiot's Guides: Tiny House Designing, Building, and Living is the one-stop guide into this innovative concept of minimalist living. Dozens of helpful images and a full-color insert displaying different types of tiny houses help you visualize your dream. The book explores what it

mentally takes to become a tiny house dweller and covers the best approach to designing and building a house that ideally fits your needs. The ebook includes an in-depth discussion on foundation types, financing and insurance, and legal standards, as well as building techniques, must-have utilities, and going off the grid, and home placement. Functional suggestions for décor, storage, and more are also featured. Bonus: three tiny house floor plans to illustrate what these homes entail.

Packed with real science and fueled by imagination, a beautifully illustrated guide to traveling in our solar system Imagine taking a hike along the windswept red plains of Mars to dig for signs of life, or touring one of Jupiter's sixty-four moons where you can photograph its swirling storms. For a shorter trip on a tight budget, the Moon is quite majestic and very quiet if you can make it during the off-season. Packed with full color illustrations and real-world science, Vacation Guide to the Solar System is the must-have planning guide for the curious space adventurer, covering all of the essentials for your next voyage, how to get there, and what to do when you arrive. Perfect for fans of Neil deGrasse Tyson's Astrophysics for People in a Hurry, this tongue-in-cheek reference guide is an imaginative exploration into the "What if" of space travel, sharing fascinating facts about space, the planets in our solar system, and even some moons!

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.

Until now there has been no comprehensive pocket reference guide for professional and student structural engineers. The Structural Engineers Pocket Book is a unique compilation of all table, data, facts, formulae and rules of thumb needed for scheme design by structural engineers in the office, in transit or on site. By bringing together data from many sources, this pocket book is a compact source of job-simplifying information at an affordable price. It is a first point of reference as well as saving valuable time spent trying to track down information that is needed on a

daily basis. This may be a small book in terms of its physical dimensions, but it contains a wealth of useful engineering knowledge. Concise and precise, the book is split into 13 sections, with quick and clear access to subject areas including: timber, masonry, concrete, aluminium and glass. British Standards are used and

referenced throughout. *the only book of its kind for structural engineers. *brings together information from many different sources for the first time. *comprehensive, yet concise and affordable.