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KEY=EDITION - PATRICK AUGUST

Report of the Presidential Commission on the Space Shuttle Challenger Accident *DIANE Publishing Reviews the circumstances surrounding the Challenger accident to establish the probable cause or causes of the accident. Develops recommendations for corrective or other action based upon the Commission's findings and determinations. Color photos, charts and tables.*

Race Tech's Motorcycle Suspension Bible *Motorbooks International Motorcycle Maintenance.*

The Car Hacker's Handbook A Guide for the Penetration Tester *No Starch Press Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to:*

- Build an accurate threat model for your vehicle
- Reverse engineer the CAN bus to fake engine signals
- Exploit vulnerabilities in diagnostic and data-logging systems
- Hack the ECU and other firmware and embedded systems
- Feed exploits through infotainment and vehicle-to-vehicle communication systems
- Override factory settings with performance-tuning techniques
- Build physical and virtual test benches to try out exploits safely

If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

Fault Tree Handbook *Nuclear Regulatory Commission Developed to serve as a text for the System Safety and Reliability Analysis course presented to Nuclear Regulatory Commission personnel and contractors. Codifies*

and systematizes the fault tree approach, a deductive failure analysis which focuses on one particular undesired event and provides a method for determining the causes of that event. **Communicate Science Papers, Presentations, and Posters**

Effectively Academic Press *Communicate Science Papers, Presentations, and Posters Effectively* is a guidebook on science writing and communication that professors, students, and professionals in the STEM fields can use in a practical way. This book advocates a clear and concise writing and presenting style, enabling users to concentrate on content. The text is useful to both native and non-native English speakers, identifying best practices for preparing graphs and tables, and offering practical guidance for writing equations. It includes content on significant figures and error bars, and provides the reader with extensive practice material consisting of both exercises and solutions. Covers how to accurately and clearly exhibit results, ideas, and conclusions Identifies phrases common in scientific literature that should never be used Discusses the theory of presentation, including “before and after examples highlighting best practices Provides concrete, step-by-step examples on how to make camera ready graphs and tables

Handbook on High-Speed Rail and Quality of Life Asian Development Bank *Handbook on High-Speed Rail and Quality of Life* outlines global experiences of high-speed rail development, including its construction, impacts, and planning, with a special focus on countries that are planning implementation in the coming decade. High-speed rail infrastructure can bring considerable socioeconomic benefits that cannot be captured through econometric modeling alone. Thus, analysis of the true impacts requires a scalar as well as a temporal lens. The studies in this handbook discuss transport infrastructure projects of varying geographic scale and describe the underlying complexities of developing an infrastructure system while focusing on the aspects that can enhance quality of life. The cases, concepts, and ideas presented in this handbook were discussed and refined during a conference and seminar series held at the Asian Development Bank Institute in Tokyo and special sessions on transport and quality of life at the 15th World Conference on Transport Research at the Indian Institute of Technology Bombay in Mumbai. The special sessions were jointly organized by the Asian Development Bank Institute and World Conference on Transport Research Society Special Interest Group A4, "High-Speed Rail: Policy, Investment, and Impacts". The conference and special sessions highlighted critical issues and delivered key messages on the broad research on high-speed rail and quality of life.

Enterprise Application Architecture with .NET Core Packt Publishing Ltd *Architect and design highly scalable, robust, clean and highly performant applications in .NET Core* About This Book Incorporate architectural soft-skills such as DevOps and Agile methodologies to enhance program-level objectives Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions Explore a variety of practical use cases and code examples to implement the tools and techniques described in the book Who This Book Is For This book is for experienced .NET developers who are aspiring to become architects of enterprise-grade applications, as well as software architects who would like to leverage .NET to create effective blueprints of applications. What You Will Learn Grasp the important aspects and best practices of application lifecycle management Leverage the popular ALM

tools, application insights, and their usage to monitor performance, testability, and optimization tools in an enterprise Explore various authentication models such as social media-based authentication, 2FA and OpenID Connect, learn authorization techniques Explore Azure with various solution approaches for Microservices and Serverless architecture along with Docker containers Gain knowledge about the recent market trends and practices and how they can be achieved with .NET Core and Microsoft tools and technologies In Detail If you want to design and develop enterprise applications using .NET Core as the development framework and learn about industry-wide best practices and guidelines, then this book is for you. The book starts with a brief introduction to enterprise architecture, which will help you to understand what enterprise architecture is and what the key components are. It will then teach you about the types of patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions. Gradually, you will learn about the different approaches and models of the Security framework and explore various authentication models and authorization techniques, such as social media-based authentication and safe storage using app secrets. By the end of the book, you will get to know the concepts and usage of the emerging fields, such as DevOps, BigData, architectural practices, and Artificial Intelligence. Style and approach Filled with examples and use cases, this guide takes a no-nonsense approach to show you the best tools and techniques required to become a successful software architect.

Parentology Everything You Wanted to Know about the Science of Raising Children but Were Too Exhausted to Ask Simon and Schuster An award-winning scientist offers his unorthodox approach to childrearing: “Parentology is brilliant, jaw-droppingly funny, and full of wisdom...bound to change your thinking about parenting and its conventions” (Amy Chua, author of *Battle Hymn of the Tiger Mother*). If you’re like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed childrearing advice, he turned to scientific research to make the big decisions. In *Parentology*, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley’s sassy kids show him the limits of his profession. *Parentology* teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You’ll be laughing and learning at the same time. **The Whirlwind War The United States Army in Operations Desert**

Shield and Desert Storm Government Printing Office CMH Publication 70-30. Edited by Frank N. Schubert and Theresa L. Kraus. Discusses the United States Army's role in the Persian Gulf War from August 1990 to February 1991. Shows the various strands that came together to produce the army of the 1990s and how that army in turn performed under fire and in the glare of world attention. Retains a sense of immediacy in its approach. Contains maps which were carefully researched and compiled as original documents in their own right. Includes an index.

Semiconductor Material and Device Characterization John Wiley & Sons Resistivity -- Carrier and doping density -- Contact resistance and Schottky barriers -- Series resistance, channel length and width, and threshold voltage -- Defects -- Oxide and interface trapped charges, oxide thickness -- Carrier lifetimes -- Mobility -- Charge-based and probe characterization -- Optical characterization -- Chemical and physical characterization -- Reliability and failure analysis. **Civil Uprisings in**

Modern Sudan The 'Khartoum Springs' of 1964 and 1985 Bloomsbury Publishing This book is open access and available on www.bloomsburycollections.com. It is funded by Knowledge Unlatched. In the wake of the protests that toppled regimes across the Middle East in 2011, Sudanese activists and writers have proudly cited their very own 'Arab Springs' of 1964 and 1985, which overthrew the country's first two military regimes, as evidence of their role as political pioneers in the region. Whilst some of these claims may be exaggerated, Sudan was indeed unique in the region at the time in that it witnessed not one but two popular uprisings which successfully uprooted military authoritarianisms. *Civil Uprisings in Modern Sudan* provides the first scholarly book-length history of the 1964 and 1985 uprisings. It explores the uprisings themselves, their legacy and the contemporary relevance they hold in the context of the current political climate of the Middle East. The book also contends that the sort of politics espoused by various kinds of Islamist during the uprisings can be interpreted as a form of early 'post-Islamism', in which Islamist political agendas were seen to be compatible with liberalism and democracy. Using interviews, Arabic language sources and a wealth of archival material, this book is an important and original study that is of great significance for scholars of African and Middle Eastern political history. **Animals Through Chinese History** Cambridge University Press This innovative new collection opens a door into the rich history of animals in China. This title is also available as Open Access.

Voice and Agency Empowering Women and Girls for Shared Prosperity World Bank Publications Despite recent advances in important aspects of the lives of girls and women, pervasive challenges remain. These challenges reflect widespread deprivations and constraints and include epidemic levels of gender-based violence and discriminatory laws and norms that prevent women from owning property, being educated, and making meaningful decisions about their own lives--such as whether and when to marry or have children. These often violate their most basic rights and are magnified and multiplied by poverty and lack of education. This groundbreaking book distills vast data and hundreds of studies to shed new light on deprivations and constraints facing the voice and agency of women and girls worldwide, and on the associated costs for individuals, families, communities, and global development. The volume presents major new findings about the patterns of constraints and overlapping deprivations

and focuses on several areas key to women's empowerment: freedom from violence, sexual and reproductive health and rights, ownership of land and housing, and voice and collective action. It highlights promising reforms and interventions from around the world and lays out an urgent agenda for governments, civil society, development agencies, and other stakeholders, including a call for greater investment in data and knowledge to benchmark progress.

Towards a Sustainable Northern European Housing Stock Figures, Facts and Future IOS Press Never were energy use and security of energy supply as high on the international political agendas as they are now. There seems to be a consensus that energy savings and sustainable energy production must have a high priority. Because the energy use in the residential and non-residential sectors account for a large part of the total energy use, new programs are being developed in order to limit the consumption of energy in these sectors and a lot of attention is put into increasing the energy efficiency of the existing building stock. *Towards a Sustainable Northern European Housing Stock* is based on a search and inventory of data on the existing Northern-European building stock and related policy developments. In this book, the authors try to give a realistic image of what is really known about the current quality of the building stock, the type of renovation activities that are undertaken and the policies being currently implemented. Recommendations are also made on how to improve the present situation.

The Theory of Laser Materials Processing Heat and Mass Transfer in Modern Technology Springer The revised edition of this important reference volume presents an expanded overview of the analytical and numerical approaches employed when exploring and developing modern laser materials processing techniques. The book shows how general principles can be used to obtain insight into laser processes, whether derived from fundamental physical theory or from direct observation of experimental results. The book gives readers an understanding of the strengths and limitations of simple numerical and analytical models that can then be used as the starting-point for more elaborate models of specific practical, theoretical or commercial value. Following an introduction to the mathematical formulation of some relevant classes of physical ideas, the core of the book consists of chapters addressing key applications in detail: cutting, keyhole welding, drilling, arc and hybrid laser-arc welding, hardening, cladding and forming. The second edition includes a new chapter on glass cutting with lasers, as employed in the display industry. A further addition is a chapter on meta-modelling, whose purpose is to construct fast, simple and reliable models based on appropriate sources of information. It then makes it easy to explore data visually and is a convenient interactive tool for scientists to improve the quality of their models and for developers when designing their processes. As in the first edition, the book ends with an updated introduction to comprehensive numerical simulation. Although the book focuses on laser interactions with materials, many of the principles and methods explored can be applied to thermal modelling in a variety of different fields and at different power levels. It is aimed principally however at academic and industrial researchers and developers in the field of laser technology.

Recent Advances in Mechanical Engineering Select Proceedings of RAME 2020 Springer Nature This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering (RAME

2020). The topics covered include aerodynamics and fluid mechanics, automation, automotive engineering, composites, ceramics and polymers processing, computational mechanics, failure and fracture mechanics, friction, tribology and surface engineering, heating and ventilation, air conditioning system, industrial engineering, IC engines, turbomachinery and alternative fuels, machinability and formability of materials, mechanisms and machines, metrology and computer-aided inspection, micro- and nano-mechanics, modelling, simulation and optimization, product design and development, rapid manufacturing technologies and prototyping, solid mechanics and structural mechanics, thermodynamics and heat transfer, traditional and non-traditional machining processes, vibration and acoustics. The book also discusses various energy-efficient renewable and non-renewable resources and technologies, strategies and technologies for sustainable development and energy & environmental interaction. The book is a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields. **Rooftop Urban Agriculture** Springer This book guides architects, landscape designers, urban planners, agronomists and society on the implementation of sustainable rooftop farming projects. The interdisciplinary team of authors involved stresses the different approaches and the multi-faceted forms that rooftop farming may assume in any context. While rooftop farming experiences are sprouting all over the world the need for scientific evidence on the most suitable growing solutions, policies and potential benefits emerges. This volume brings together existing experiences as well as suggestions for planning future sustainable cities. **Isde 1983 Bugged Down in Powys** The 1983 Six Days in Wales was supposed to be America's great chance to finally come home with the World Trophy. The year before in Czechoslovakia, the American team, mudders all, came within a whisker of winning the great prize, and the bogs of Wales in 1983 were set for the final showdown. In the end, bad trouble was our constant companion in Wales, starting with the injury that sidelined one of our top Trophy Team members, and ending with unrelenting bad weather and subsequent machine breakdowns. This is the story of that week. **The Indianapolis 500** Gareth Stevens Publishing LLLP When it comes to car races, few events come close to being able to offer the excitement and notoriety of the Indianapolis 500. Since 1911, fans and drivers have flocked to Indianapolis Motor Speedway in Indiana for this intense event. Written at a low level, this captivating narrative gives readers an accessible and in-depth look at this popular event. Attention-grabbing photographs, interesting fact boxes, and informative text will satisfy your young race car enthusiasts. **Proceedings of International Conference on Intelligent Manufacturing and Automation ICIMA 2020** Springer Nature This book gathers selected papers presented at the Second International Conference on Intelligent Manufacturing and Automation (ICIMA 2020), which was jointly organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering (DJSCE), Mumbai, and by the Indian Society of Manufacturing Engineers (ISME). Covering a range of topics in intelligent manufacturing, automation, advanced materials and design, it focuses on the latest advances in e.g. CAD/CAM/CAE/CIM/FMS in manufacturing, artificial intelligence in manufacturing, IoT in manufacturing, product design & development, DFM/DFA/FMEA, MEMS & nanotechnology, rapid prototyping,

computational techniques, nano- & micro-machining, sustainable manufacturing, industrial engineering, manufacturing process management, modelling & optimization techniques, CRM, MRP & ERP, green, lean & agile manufacturing, logistics & supply chain management, quality assurance & environmental protection, advanced material processing & characterization of composite & smart materials. The book is intended as a reference guide for future researchers, and as a valuable resource for students in graduate and doctoral programmes.

Planetary Diversity Rocky Planet Processes and Their Observational Signatures The last thirty years have seen an irrevocable change in the field of planetary science with the discovery of the first planets around stars other than our own Sun. While approximately twenty percent of the exoplanets we have discovered are close in size to the Earth, the similarity of their surface environment to our home world remains unknown. This book presents an exploration of the potential diversity of rocky planets through a quantitative study of how planetary processes change as properties deviate from the Earth. Changes in four specific properties are considered: the presence of a magnetic field, the production and loss of internal heat, planetary composition and volatile abundance.

Mechanisms of antibiotic resistance Frontiers Media SA Antibiotics represent one of the most successful forms of therapy in medicine. But the efficiency of antibiotics is compromised by the growing number of antibiotic-resistant pathogens. Antibiotic resistance, which is implicated in elevated morbidity and mortality rates as well as in the increased treatment costs, is considered to be one of the major global public health threats (www.who.int/drugresistance/en/) and the magnitude of the problem recently prompted a number of international and national bodies to take actions to protect the public (http://ec.europa.eu/dgs/health_consumer/docs/road-map-amr_en.pdf; http://www.who.int/drugresistance/amr_global_action_plan/en/; http://www.whitehouse.gov/sites/default/files/docs/carb_national_strategy.pdf). Understanding the mechanisms by which bacteria successfully defend themselves against the antibiotic assault represent the main theme of this eBook published as a Research Topic in Frontiers in Microbiology, section of Antimicrobials, Resistance, and Chemotherapy. The articles in the eBook update the reader on various aspects and mechanisms of antibiotic resistance. A better understanding of these mechanisms should facilitate the development of means to potentiate the efficacy and increase the lifespan of antibiotics while minimizing the emergence of antibiotic resistance among pathogens.

Land Cover Change and Its Eco-environmental Responses in Nepal Springer This book offers a systematic investigation of the ecological and environmental issues related to the land cover changes in Nepal by researchers from both China and Nepal. It discusses the eco-environmental issues faced by Nepal, particularly in the hills and mountain regions. It also sheds light on the global concerns regarding the eco-environment issues of mountains, and analyzes the various causes and potential consequences of eco-environmental degradation in Nepal. The book is of particular interest to students, researchers, experts, and decision-makers wanting to gain a general overview of land cover in Nepal and its dynamics, environment and natural resources, as well as mountain hazards.

Techno-Societal 2020 Proceedings of the 3rd International Conference on Advanced Technologies for Societal Applications—Volume 2

Springer Nature This book, divided in two volumes, originates from *Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications*, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as advanced and sustainable technologies for manufacturing processes, environment, livelihood, rural employment, agriculture, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels. **Internationalization of Business Cases on**

Strategy Formulation and Implementation *Springer* This book illustrates the various facets of internationalization in managerial practice, starting with a strategic outline of the many options firms have when formulating internationalization strategies. Designed as a textbook for Bachelor, Master and MBA classrooms, the core of the book consists of six case studies on firms from diverse industries, such as sporting goods, aviation, grocery discount, motorcycle, computer and IT, and fast-food. The cases present a variety of ways of entering and operating in foreign markets, such as export, franchising, joint ventures, strategic alliances, greenfield-investments, acquisitions and mergers. In addition to market entry strategies, the cases provide readers, educators and students with insights into target market strategies, timing strategies, allocation strategies and coordination strategies of well-known companies. **Eleventh Malaysia Plan, 2016-2020 Anchoring Growth**

on People Sewing Success? Employment, Wages, and Poverty following the End of the Multi-Fibre Arrangement *World Bank Publications* The end of the MFA was followed by rising apparel exports, falling prices, and a reallocation of production and employment between countries. There were also significant changes within countries. The first main finding of this report is that export and employment patterns after the MFA/ATC did not necessarily match predictions. While many predicted that production would shift to low-wage countries, this book shows that only 13 percent of variation in export changes post-MFA can be explained by the differences in wage levels. Second, changes in exports are usually, but not always, good indicators of what happens to wages and employment within countries. This is especially important for policy because it shows that simply using exports as a metric of 'success' in terms of helping the poor is not sufficient. Third, the Book identifies the specific ways that changes in the global apparel market affected earnings. The Book shows that wage premiums change in predictable ways: rising (in most cases) in countries that were proactive in adapting to the MFA phase-out and expanded their market shares, and falling in countries that failed to respond in a timely fashion to the changing environment. The Book shows that promoting 'upgrading' (defined as shifting to higher-value goods, shifting up the value chain, or 'modernizing' production techniques) seems to be necessary for sustainable

competitiveness in the apparel sector but does not necessarily help the poor. Policies that support upgrading need to be complemented with targeted workforce development to make sure that the most vulnerable workers are not left behind. Having a vision for the evolution of the apparel sector that incorporates developing worker skills seems crucial. Otherwise, less-skilled workers could miss out on opportunities to gain valuable work experience in manufacturing.

Financing Clean Energy in Developing Asia This book examines clean energy investment needs and financing gaps in Asia and the Pacific and discusses how they are being addressed. It reviews existing financing options and approaches for clean energy, and includes country examples of how these have been applied. Innovative solutions for mobilizing private finance and managing risks associated with clean energy investments are also discussed. The book is the first of two volumes that look at various approaches and instruments that have been tried, tested, and utilized to scale up clean energy development in the region.

Motion Control Systems John Wiley & Sons *Motion Control Systems* is concerned with design methods that support the never-ending requirements for faster and more accurate control of mechanical motion. The book presents material that is fundamental, yet at the same time discusses the solution of complex problems in motion control systems. Methods presented in the book are based on the authors' original research results. Mathematical complexities are kept to a required minimum so that practicing engineers as well as students with a limited background in control may use the book. It is unique in presenting know-how accumulated through work on very diverse problems into a comprehensive unified approach suitable for application in high demanding, high-tech products. Major issues covered include motion control ranging from simple trajectory tracking and force control, to topics related to haptics, bilateral control with and without delay in measurement and control channels, as well as control of nonredundant and redundant multibody systems. Provides a consistent unified theoretical framework for motion control design Offers graduated increase in complexity and reinforcement throughout the book Gives detailed explanation of underlying similarities and specifics in motion control Unified treatment of single degree-of-freedom and multibody systems Explains the fundamentals through implementation examples Based on classroom-tested materials and the authors' original research work Written by the leading researchers in sliding mode control (SMC) and disturbance observer (DOB) Accompanying lecture notes for instructors Simulink and MATLAB® codes available for readers to download *Motion Control Systems* is an ideal textbook for a course on motion control or as a reference for post-graduates and researchers in robotics and mechatronics. Researchers and practicing engineers will also find the techniques helpful in designing mechanical motion systems.

Computational Plasticity Springer Science & Business Media This book contains 14 invited contributions written by distinguished authors who participated in the VIII International Conference on Computational Plasticity held at CIMNE/UPC (www.cimne.com) from 5-8 September 2005, in Barcelona, Spain. The chapters present recent progress and future research directions in the field of computational plasticity.

Urban and Transit Planning A Culmination of Selected Research Papers from IEREK Conferences on Urban Planning, Architecture and Green Urbanism, Italy and Netherlands (2017)

Springer A volume of five parts, this book is a culmination of selected research papers from the second version of the international conferences on Urban Planning & Architectural Design for sustainable Development (UPADSD) and Urban Transit and Sustainable Networks (UTSN) of 2017 in Palermo and the first of the Resilient and Responsible Architecture and Urbanism Conference (RRAU) of 2018 in the Netherlands. This book, not only discusses environmental challenges of the world today, but also informs the reader of the new technologies, tools, and approaches used today for successful planning and development as well as new and upcoming ones. Chapters of this book provide in-depth debates on fields of environmental planning and management, transportation planning, renewable energy generation and sustainable urban land use. It addresses long-term issues as well as short-term issues of land use and transportation in different parts of the world in hopes of improving the quality of life. Topics within this book include: (1) Sustainability and the Built Environment (2) Urban and Environmental Planning (3) Sustainable Urban Land Use and Transportation (4) Energy Efficient Urban Areas & Renewable Energy Generation (5) Quality of Life & Environmental Management Systems. This book is a useful source for academics, researchers and practitioners seeking pioneering research in the field. **Sustainable High Rise Buildings in Urban Zones Advantages, Challenges, and Global Case Studies** Springer This unique reference gathers numerous new studies examining specific, prominent high-rise buildings around the world. Each nuanced study included undertakes the following pivotal considerations: environmental impacts; safety & social acceptability; energy consumption and comfort; planning contexts within the urban zone; physical footprint and size; services and risks; and a careful assessment of advantages and challenges. Architects and engineers exploring and optimizing sustainable building practices, energy managers, municipal and private project planners, as well as students will find edification and inspiration in the analysis provided by esteemed practitioners and professors within this fascinating volume. **Light-Emitting Diodes** Cambridge University Press Revised and fully updated, the second edition of this graduate textbook offers a comprehensive explanation of the technology and physics of LEDs such as infrared, visible-spectrum, ultraviolet, and white LEDs made from III-V semiconductors. Elementary properties such as electrical and optical characteristics are reviewed, followed by the analysis of advanced device structures. With nine additional chapters, the treatment of LEDs has been vastly expanded, including new material on device packaging, reflectors, UV LEDs, III-V nitride materials, solid-state sources for illumination applications, and junction temperature. Radiative and non-radiative recombination dynamics, methods for improving light extraction, high-efficiency and high-power device designs, white-light emitters with wavelength-converting phosphor materials, optical reflectors, and spontaneous recombination in resonant-cavity structures are discussed in detail. With exercises, solutions, and illustrative examples, this textbook will be of interest to scientists and engineers working on LEDs and graduate students in electrical engineering, applied physics, and materials science. **Power in Flux The History of Electric Motorcycles Adventure Motorcycling Handbook** Trail Blazer Publications Every red-blooded motorcyclist dreams of making the Big Trip--this updated fifth edition shows them how. Choosing a bike, deciding on a destination, bike preparation,

documentation and shipping, trans-continental route outlines across Africa, Asia and Latin America, and back-country riding in SW USA, NW Canada and Australia. Plus-- first hand accounts of biking adventures worldwide. **Honda Motorcycles**

Everything You Need to Know About Every Honda Motorcycle Ever Built

Krause Publications In *Honda Motorcycles: The Ultimate Guide*, motorcycle historian Doug Mitchel traces the evolution of the Honda empire through the road bikes that changed the world. ——From the earliest D-type two-stroke Dream, to the groundbreaking four-cylinder CD750 of the late 1960s, to the modern sport bikes, Mitchel paints a year-by-year picture of Honda's fabulous history. This complete history, along with the must-have year-by-year model information and collector pricing, makes this book *THE* guide to own. **The Military Balance 2021**

Routledge Published each year since 1959, *The Military Balance* is an indispensable reference to the capabilities of armed forces across the globe. It will be of interest to anyone interested in security and military issues and is regularly consulted by academia, media, armed forces, the private sector and government. Key Elements: 1. Data on the military organisations, equipment inventories and defence budgets of 171 countries 2. Analysis of major developments affecting defence policy and procurement, and defence economics, arranged region-by-region. 3. Key trends in the land, sea and air domains, and in cyberspace 4. Selected defence procurement programmes, arranged region-by-region 5. Full-colour graphics including maps and illustrations 6. Extensive explanatory notes and references 7. The hardcopy edition is accompanied by a full-colour wall chart

Features in the 2021 edition include: - Analytical texts on future maritime competition, battle management systems, China's civil-military integration and fractures in the arms-control environment - Military cyber capabilities - Analysis of developments in defence policy, military capability and defence economics and industry for China, Egypt, Finland, Indonesia, Russia, Senegal and the United States. - A wallchart illustrating global submarine holdings and key trends in subsurface warfare

Tenth Malaysia Plan 2011-2015

Technologies and Applications for Smart Charging of Electric and Plug-in

Hybrid Vehicles Springer This book outlines issues related to massive integration of

electric and plug-in hybrid electric vehicles into power grids. Electricity is becoming the preferred energy vector for the next new generation of road vehicles. It is widely acknowledged that road vehicles based on full electric or hybrid drives can mitigate problems related to fossil fuel dependence. This book explains the emerging and understanding of storage systems for electric and plug-in hybrid vehicles. The recharging stations for these types of vehicles might represent a great advantage for the electric grid by facilitating integration of renewable and distributed energy production. This book presents a broad review from analyzing current literature to on-going research projects about the new power technologies related to the various charging architectures for electric and plug-in hybrid vehicles. Specifically focusing on DC fast charging operations, as well as, grid-connected power converters and the full range of energy storage systems. These key components are analyzed for distributed generation and charging system integration into micro-grids. The authors demonstrate that these storage systems represent effective interfaces for the control and management of renewable and sustainable distributed energy resources. New standards and applications are emerging from micro-grid pilot projects around

*the world and case studies demonstrate the convenience and feasibility of distributed energy management. The material in this unique volume discusses potential avenues for further research toward achieving more reliable, more secure and cleaner energy. **Fundamentals of Financial Accounting** McGraw-Hill LLC "Fundamentals of Financial Accounting responds by using carefully chosen focus companies that students recognize and engage with in their everyday lives. From tech start-ups to some of the world's most familiar trademark brands, each chapter opens with an engaging scenario or story using a familiar company. The same focus company, such as Walmart, Cedar Fair, American Eagle, National Beverage, Under Armour, or General Mills, is used throughout the entire chapter so that students can see how the concepts and calculations apply to a real-world company they are already familiar with"--*