

Manual of Forensic Emergency Medicine Ralph Riviello,2009-07 Manual of Forensic Emergency Medicine is a comprehensive guide to the clinical approach to criminal illness and injury. This resource offers emergency care professionals the knowledge needed to make an accurate diagnosis of abuse, neglect, sexual assault or other conditions in which forensic investigation is needed. This book offers information on victim services and resources available for patients, as well as relevant aspects of the legal system. This essential guide contains color photos, a forensic glossary, and forensic forms that can be used in a clinical practice. Key Topics include Forensic Documentation, Firearms, Evidence Collection in the ED, and Gang Violence.

Crime and Deviance in Cyberspace DavidS. Wall,2017-07-05 This volume presents the reader with an interesting and, at times, provocative selection of contemporary thinking about cybercrimes and their regulation. The contributions cover the years 2002-2007, during which period internet service delivery speeds increased a thousand-fold from 56kb to 56mb per second. When combined with advances in networked technology, these faster internet speeds not only made new digital environments more easily accessible, but they also helped give birth to a completely new generation of purely internet-related cybercrimes ranging from spamming, phishing and other automated frauds to automated crimes against the integrity of the systems and their content. In order to understand these developments, the volume introduces new cybercrime viewpoints and issues, but also a critical edge supported by some of the new research that is beginning to challenge and surpass the hitherto journalistically-driven news stories that were once the sole source of information about cybercrimes.

Cellulose Science and Technology Jean-Luc Wertz,Olivier Bédué,Jean P. Mercier,2010-06-21 An ideal reference for scientists in natural and synthetic polymer research, this book applies basic biology as well as polymer and sugar chemistry to the study of cellulose, and it provides key requirements for understanding this complex science.

Vanished Kingdoms Norman Davies,2012-01-05 An evocative account of fourteen European kingdoms-their rise, maturity, and eventual disappearance. There is something profoundly romantic about lost civilizations. Europe's past is littered with states and kingdoms, large and small, that are scarcely remembered today, and while their names may be unfamiliar-Aragon, Etruria, the Kingdom of the Two Burgundies-their stories should change our mental map of the past. We come across forgotten characters and famous ones-King Arthur and Macbeth, Napoleon and Queen Victoria, right up to Stalin and Gorbachev-and discover how faulty memory can be, and how much we can glean from these lost empires. Davies peers through the cracks in the mainstream accounts of modern-day states to dazzle us with extraordinary stories of barely remembered pasts, and of the traces they left behind. This is Norman Davies at his best: sweeping narrative history packed with unexpected insights. Vanished Kingdoms will appeal to all fans of unconventional and thought-provoking history, from readers of Niall Ferguson to Jared Diamond.

The Portrayal of Jews in Modern Bielarussian Literature Zina J. Gimpelevich,2018-07-02 In Cold Rush Martin Breum travels through and describes the new quest for the Arctic and the tortuous ongoing diplomatic endeavours to maintain peace, while the governments involved all develop still stronger security presences.

Mortal Jigsaw Puzzle Grieving Patriot,2012-01-16 The Mortal Jigsaw puzzle follows the struggles of a heroic urban vice principal, as he attempts to control a large high school teetering on the verge of chaos. During the course of an infamous day known as Fat Lip Friday, the ghetto principal tries valiantly to keep control of his school in the midst of a full blown gang war. Immersed in an environment replete with urban music, violence, verbiage, and dress, the reader is bombarded with shocking images of life in the modern hood. As the visceral educational conflagration unfolds, the protagonist, Jose Perez, unexpectedly catches glimpses of a diabolical conspiracy of which street gangs are just a small part. Thanks to his keen senses, Mr. Perez slowly collects the pieces to a profoundly disturbing global puzzle comprised of codes, lyrics, art, and symbols of Egyptian, Masonic, and satanic origin. While attempting to place the gratuitous carnage and depravity of the inner city into perspective, Mr. Perez accidentally stumbles upon an interdisciplinary mind control plan which draws upon religion, politics, economics, psychology, marketing, history, and the occult. Alarmed by his findings, Mr. Perez warns his community of their pending doom, only to be hunted down by the very debt cattle whom he tries to save from oblivion. In the end, both his community and his nation are condemned to fall under this nefarious plot, as this educators quixotic mission abruptly ends with an ominous knock on his front door.

Gangs and Organized Crime George W. Knox,Gregg Etter,Carter F. Smith,2018-07-04 In Gangs and Organized Crime, George W. Knox, Gregg W. Etter, and Carter F. Smith offer an informed and carefully investigated examination of gangs and organized crime groups, covering street gangs, prison gangs, outlaw motorcycle gangs, and organized crime groups from every continent. The authors have spent decades investigating gangs as well as researching their history and activities, and this dual professional-academic perspective informs their analysis of gangs and crime groups. They take a multidisciplinary approach that combines criminal justice, public policy and administration, law, organizational behavior, sociology, psychology, and urban planning perspectives to provide insight into the actions and interactions of a variety of groups and their members. This textbook is ideal for criminal justice and sociology courses on gangs as well as related course topics like gang behavior, gang crime and the inner city, organized crime families, and transnational criminal groups. Gangs and Organized Crime is also an excellent addition to the professional's reference library or primer for the general reader. More information is available at the supporting website - www.gangsandorganizedcrime.com

Patients' Rights, Law and Ethics for Nurses: A practical guide Paul Buka,2008-02-29 Understanding the legal and ethical rights of any patient in their care is essential to good clinical practice. Patients' Rights, Law and Ethics for Nurses: A Practical Guide is a comprehensive pocket-size book for nurses, midwives and allied health professionals that integrates health care law and ethics in relation to patient rights and in the context of every day nursing and allied health practice Accessible yet challenging, the book examines confidentiality, informed consent, cases of abuse, the rights of the disabled, and end of life decisions. Pertinent quotes enliven the text throughout, while thinking points encourage reflection. Each chapter provides easy-to-follow guidance to this complex area. A companion website provides regular updates in an areas where legislation is constantly changing. Focusing on principles of law and including clear outlines of the essential legal precedent, the author lays a solid foundation that will serve readers requiring an introduction to law, ethics, and the rights of the patient throughout their training and beyond.

Webster's New World Hacker Dictionary Bernadette Schell,Clemens Martin,2006-10-30 The comprehensive hacker dictionary for security professionals, businesses, governments, legal professionals, and others dealing with cyberspace Hackers. Crackers. Phreakers. Black hats. White hats. Cybercrime. Logfiles. Anonymous Digital Cash. ARP Redirect. Cyberspace has a language all its own. Understanding it is vital if you're concerned about Internet security, national security, or even personal security. As recent events have proven, you don't have to own a computer to be the victim of cybercrime-crackers have accessed information in the records of large, respected organizations, institutions, and even the military. This is your guide to understanding hacker terminology. It's up to date and comprehensive, with: * Clear, concise, and accurate definitions of more than 875 hacker terms * Entries spanning key information-technology security concepts, organizations, case studies, laws, theories, and tools * Entries covering general terms, legal terms, legal cases, and people * Suggested further reading for definitions This unique book provides a chronology of hacker-related developments beginning with the advent of the computer and continuing through current events in what is identified as today's Fear of a Cyber-Apocalypse Era. An appendix entitled How Do Hackers Break into Computers? details some of the ways crackers access and steal information. Knowledge is power. With this dictionary, you're better equipped to be a white hat and guard against cybercrime.

The Small Business Controller Richard O. Hanson,2009-09-01 This book describes the role of the controller in a nonpublic company (small business), and provides a detailed 'how to' guidance of the various duties and responsibilities the controller of a nonpublic company may be required to assume. It describes the functions many small business controllers usually perform. The audience for this portfolio is new controllers for small business and/or those aspiring to become controllers.

Interdisciplinary approaches to literacy and development Kaushik Basu,Bryan Maddox,Anna Robinson-Pant,2013-09-13 The links between literacy and development have been the focus of research conducted

by both economists and anthropologists. Yet researchers from these different disciplines have tended to work in isolation from each other. This book aims to create a space for new interdisciplinary debate in this area, through bringing together contributions on literacy and development from the fields of education, literacy studies, anthropology and economics. The book extends our theoretical understanding on the ways in which people's acquisition and uses of literacy influence changes in agency, identity, social practice and labour market and other outcomes. The chapters discuss data from diverse cultural contexts (South Africa, Bangladesh, India, Nepal, Peru, and Mexico), and from contrasting research paradigms. The contributors examine the significance of culture and socio-economic contexts in shaping such processes. As such, they contribute to our understanding of the role of literacy in processes of poverty reduction, and its importance to people's capabilities and wellbeing. The themes covered include: the dynamics of literacy use in the production of agency, the enactment, negotiation and embodiment of new social identities - including gendered and religious identities; the impacts of literate identities and use on institutional relations and social participation; the dynamics of literacy 'sharing' and their externalities within and beyond households; formal analysis of the impacts of proximate illiteracy on labour market and health outcomes across men and women and social contexts. This book was published as a special issue of the Journal of Development Studies.

Workbook for Pilbeam's Mechanical Ventilation J. M. Cairo, PhD, RRT, FAARC, Sandra T Hinski, 2015-10-16 Corresponding to the chapters in Pilbeam's Mechanical Ventilation, 6th Edition, this workbook helps readers focus their study on the most important information and prepare for the NBRC certification exam. A wide range of exercises includes crossword puzzles, critical thinking questions, NBRC-style multiple-choice questions, case studies, waveform analysis, ventilation data analysis, and fill-in-the-blank and short-answer activities. Close correlation with the Pilbeam's main text supports learning from the textbook. Wide variety of learning exercises - including crossword puzzles, NBRC-style questions, case study exercises, waveform analysis, ventilation data analyses, and numerous question formats - helps readers assess their knowledge and practice areas of weakness. Critical Thinking questions ask readers to solve problems relating to real-life scenarios that may be encountered in practice. NEW! Graphic exercises appendix from the text is now located in the workbook for convenient access.

Automatic Solar Tracking Sun Tracking Satellite Tracking rastreador solar seguimiento solar seguidor solar automático de seguimiento solar Gerro Prinsloo, Robert Dobson, 2015-11-01 Automatic Solar Tracking Sun Tracking : This book details Automatic Solar-Tracking, Sun-Tracking-Systems, Solar-Trackers and Sun Tracker Systems. An intelligent automatic solar tracker is a device that orients a payload toward the sun. Such programmable computer based solar tracking device includes principles of solar tracking, solar tracking systems, as well as microcontroller, microprocessor and/or PC based solar tracking control to orientate solar reflectors, solar lenses, photovoltaic panels or other optical configurations towards the sun. Motorized space frames and kinematic systems ensure motion dynamics and employ drive technology and gearing principles to steer optical configurations such as mangin, parabolic, conic, or cassegrain solar energy collectors to face the sun and follow the sun movement contour continuously (seguimiento solar y automatización, automatización seguidor solar, tracking solar e automação, automação seguidor solar, inseguimento solare, inseguitore solare, energia termica, sole seguito, posizionatore motorizzato) In harnessing power from the sun through a solar tracker or practical solar tracking system, renewable energy control automation systems require automatic solar tracking software and solar position algorithms to accomplish dynamic motion control with control automation architecture, circuit boards and hardware. On-axis sun tracking system such as the altitude-azimuth dual axis or multi-axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the sun's passage through the sky is traced with high precision in automated solar tracker applications, right through summer solstice, solar equinox and winter solstice. A high precision sun position calculator or sun position algorithm is this an important step in the design and construction of an automatic solar tracking system. The content of the book is also applicable to communication antenna satellite tracking and moon tracking algorithm source code for which links to free download links are provided. From sun tracing software perspective, the sonnet Tracing The Sun has a literal meaning. Within the context of sun track and trace, this book explains that the sun's daily path across the sky is directed by relatively simple principles, and if grasped/understood, then it is relatively easy to trace the sun with sun following software. Sun position computer software for tracing the sun are available as open source code, sources that is listed in this book. The book also describes the use of satellite tracking software and mechanisms in solar tracking applications. Ironically there was even a system called sun chaser, said to have been a solar positioner system known for chasing the sun throughout the day. Using solar equations in an electronic circuit for automatic solar tracking is quite simple, even if you are a novice, but mathematical solar equations are over complicated by academic experts and professors in text-books, journal articles and internet websites. In terms of solar hobbies, scholars, students and Hobbyist's looking at solar tracking electronics or PC programs for solar tracking are usually overcome by the sheer volume of scientific material and internet resources, which leaves many developers in frustration when search for simple experimental solar tracking source-code for their on-axis sun-tracking systems. This booklet will simplify the search for the mystical sun tracking formulas for your sun tracker innovation and help you develop your own autonomous solar tracking controller. By directing the solar collector directly into the sun, a solar harvesting means or device can harness sunlight or thermal heat. This is achieved with the help of sun angle formulas, solar angle formulas or solar tracking procedures for the calculation of sun's position in the sky. Automatic sun tracking system software includes algorithms for solar altitude azimuth angle calculations required in following the sun across the sky. In using the longitude, latitude GPS coordinates of the solar tracker location, these sun tracking software tools supports precision solar tracking by determining the solar altitude-azimuth coordinates for the sun trajectory in altitude-azimuth tracking at the tracker location, using certain sun angle formulas in sun vector calculations. Instead of follow the sun software, a sun tracking sensor such as a sun sensor or webcam or video camera with vision based sun following image processing software can also be used to determine the position of the sun optically. Such optical feedback devices are often used in solar panel tracking systems and dish tracking systems. Dynamic sun tracing is also used in solar surveying, DNI analyser and sun surveying systems that build solar infographics maps with solar radiance, irradiance and DNI models for GIS (geographical information system). In this way geospatial methods on solar/environment interaction makes use use of geospatial technologies (GIS, Remote Sensing, and Cartography). Climatic data and weather station or weather center data, as well as queries from sky servers and solar resource database systems (i.e. on DB2, Sybase, Oracle, SQL, MySQL) may also be associated with solar GIS maps. In such solar resource modelling systems, a pyranometer or solarimeter is normally used in addition to measure direct and indirect, scattered, dispersed, reflective radiation for a particular geographical location. Sunlight analysis is important in flash photography where photographic lighting are important for photographers. GIS systems are used by architects who add sun shadow applets to study architectural shading or sun shadow analysis, solar flux calculations, optical modelling or to perform weather modelling. Such systems often employ a computer operated telescope type mechanism with ray tracing program software as a solar navigator or sun tracer that determines the solar position and intensity. The purpose of this booklet is to assist developers to track and trace suitable source-code and solar tracking algorithms for their application, whether a hobbyist, scientist, technician or engineer. Many open-source sun following and tracking algorithms and source-code for solar tracking programs and modules are freely available to download on the internet today. Certain proprietary solar tracker kits and solar tracking controllers include a software development kit SDK for its application programming interface API attributes (Pebble). Widget libraries, widget toolkits, GUI toolkit and UX libraries with graphical control elements are also available to construct the graphical user interface (GUI) for your solar tracking or solar power monitoring program. The solar library used by solar position calculators, solar simulation software and solar contour calculators include machine program code for the solar hardware controller which are software programmed into Micro-controllers, Programmable Logic Controllers PLC, programmable gate arrays, Arduino processor or PIC processor. PC based solar tracking is also high in demand using C++, Visual Basic VB, as well as MS Windows, Linux and Apple Mac based operating systems for sun path tables on Matlab, Excel. Some books and internet webpages use other terms, such as: sun angle calculator, sun position calculator or solar angle calculator. As said, such software code calculate the solar azimuth angle, solar altitude angle, solar elevation angle or the solar Zenith angle (Zenith solar angle is simply referenced from vertical plane, the mirror of the elevation angle measured from the horizontal or ground plane level). Similar software code is also used in solar calculator apps or the solar power calculator apps for IOS and Android smartphone devices. Most of these smartphone solar mobile apps show the sun path and sun-angles for any location and date over a 24

hour period. Some smartphones include augmented reality features in which you can physically see and look at the solar path through your cell phone camera or mobile phone camera at your phone's specific GPS location. In the computer programming and digital signal processing (DSP) environment, (free/open source) program code are available for VB, .Net, Delphi, Python, C, C+, C++, PHP, Swift, ADM, F, Flash, Basic, QBasic, GBasic, KBasic, SIMPL language, Squirrel, Solaris, Assembly language on operating systems such as MS Windows, Apple Mac, DOS or Linux OS. Software algorithms predicting position of the sun in the sky are commonly available as graphical programming platforms such as Matlab (Mathworks), Simulink models, Java applets, TRNSYS simulations, Scada system apps, Labview module, Beckhoff TwinCAT (Visual Studio), Siemens SPA, mobile and iphone apps, Android or iOS tablet apps, and so forth. At the same time, PLC software code for a range of sun tracking automation technology can follow the profile of sun in sky for Siemens, HP, Panasonic, ABB, Allan Bradley, OMRON, SEW, Festo, Beckhoff, Rockwell, Schneider, Endress Hauser, Fudji electric. Honeywell, Fuchs, Yokonawa, or Muthibishi platforms. Sun path projection software are also available for a range of modular IPC embedded PC motherboards, Industrial PC, PLC (Programmable Logic Controller) and PAC (Programmable Automation Controller) such as the Siemens S7-1200 or Siemens Logo, Beckhoff IPC or CX series, OMRON PLC, Ercam PLC, AC500plc ABB, National Instruments NI PXI or NI cRIO, PIC processor, Intel 8051/8085, IBM (Cell, Power, Brain or Truenorth series), FPGA (Xilinx Altera Nios), Intel, Xeon, Atmel megaAVR, MPU, Maple, Teensy, MSP, XMOS, Xbee, ARM, Raspberry Pi, Eagle, Arduino or Arduino AtMega microcontroller, with servo motor, stepper motor, direct current DC pulse width modulation PWM (current driver) or alternating current AC SPS or IPC variable frequency drives VFD motor drives (also termed adjustable-frequency drive, variable-speed drive, AC drive, micro drive or inverter drive) for electrical, mechatronic, pneumatic, or hydraulic solar tracking actuators. The above motion control and robot control systems include analogue or digital interfacing ports on the processors to allow for tracker angle orientation feedback control through one or a combination of angle sensor or angle encoder, shaft encoder, precision encoder, optical encoder, magnetic encoder, direction encoder, rotational encoder, chip encoder, tilt sensor, inclination sensor, or pitch sensor. Note that the tracker's elevation or zenith axis angle may measured using an altitude angle-, declination angle-, inclination angle-, pitch angle-, or vertical angle-, zenith angle- sensor or inclinometer. Similarly the tracker's azimuth axis angle be measured with a azimuth angle-, horizontal angle-, or roll angle- sensor. Chip integrated accelerometer magnetometer gyroscope type angle sensors can also be used to calculate displacement. Other options include the use of thermal imaging systems such as a Fluke thermal imager, or robotic or vision based solar tracker systems that employ face tracking, head tracking, hand tracking, eye tracking and car tracking principles in solar tracking. With unattended decentralised rural, island, isolated, or autonomous off-grid power installations, remote control, monitoring, data acquisition, digital datalogging and online measurement and verification equipment becomes crucial. It assists the operator with supervisory control to monitor the efficiency of remote renewable energy resources and systems and provide valuable web-based feedback in terms of CO2 and clean development mechanism (CDM) reporting. A power quality analyser for diagnostics through internet, WiFi and cellular mobile links is most valuable in frontline troubleshooting and predictive maintenance, where quick diagnostic analysis is required to detect and prevent power quality issues. Solar tracker applications cover a wide spectrum of solar applications and solar assisted application, including concentrated solar power generation, solar desalination, solar water purification, solar steam generation, solar electricity generation, solar industrial process heat, solar thermal heat storage, solar food dryers, solar water pumping, hydrogen production from methane or producing hydrogen and oxygen from water (HHO) through electrolysis. Many patented or non-patented solar apparatus include tracking in solar apparatus for solar electric generator, solar desalinator, solar steam engine, solar ice maker, solar water purifier, solar cooling, solar refrigeration, USB solar charger, solar phone charging, portable solar charging tracker, solar coffee brewing, solar cooking or solar drying means. Your project may be the next breakthrough or patent, but your invention is held back by frustration in search for the sun tracker you require for your solar powered appliance, solar generator, solar tracker robot, solar freezer, solar cooker, solar drier, solar pump, solar freezer, or solar dryer project. Whether your solar electronic circuit diagram include a simplified solar controller design in a solar electricity project, solar power kit, solar hobby kit, solar steam generator, solar hot water system, solar ice maker, solar desalinator, hobbyist solar panels, hobby robot, or if you are developing professional or hobby electronics for a solar utility or micro scale solar powerplant for your own solar farm or solar farming, this publication may help accelerate the development of your solar tracking innovation. Lately, solar polygeneration, solar trigeneration (solar triple generation), and solar quad generation (adding delivery of steam, liquid/gaseous fuel, or capture food-grade CO₂) systems have need for automatic solar tracking. These systems are known for significant efficiency increases in energy yield as a result of the integration and re-use of waste or residual heat and are suitable for compact packaged micro solar powerplants that could be manufactured and transported in kit-form and operate on a plug-and play basis. Typical hybrid solar power systems include compact or packaged solar micro combined heat and power (CHP or mCHP) or solar micro combined, cooling, heating and power (CCHP, CHPC, mCCHP, or mCHPC) systems used in distributed power generation. These systems are often combined in concentrated solar CSP and CPV smart microgrid configurations for off-grid rural, island or isolated microgrid, minigrid and distributed power renewable energy systems. Solar tracking algorithms are also used in modelling of trigeneration systems using Matlab Simulink (Modelica or TRNSYS) platform as well as in automation and control of renewable energy systems through intelligent parsing, multi-objective, adaptive learning control and control optimization strategies. Solar tracking algorithms also find application in developing solar models for country or location specific solar studies, for example in terms of measuring or analysis of the fluctuations of the solar radiation (i.e. direct and diffuse radiation) in a particular area. Solar DNI, solar irradiance and atmospheric information and models can thus be integrated into a solar map, solar atlas or geographical information systems (GIS). Such models allows for defining local parameters for specific regions that may be valuable in terms of the evaluation of different solar in photovoltaic of CSP systems on simulation and synthesis platforms such as Matlab and Simulink or in linear or multi-objective optimization algorithm platforms such as COMPOSE, EnergyPLAN or DER-CAM. A dual-axis solar tracker and single-axis solar tracker may use a sun tracker program or sun tracker algorithm to position a solar dish, solar panel array, heliostat array, PV panel, solar antenna or infrared solar nantenna. A self-tracking solar concentrator performs automatic solar tracking by computing the solar vector. Solar position algorithms (TwinCAT, SPA, or PSA Algorithms) use an astronomical algorithm to calculate the position of the sun. It uses astronomical software algorithms and equations for solar tracking in the calculation of sun's position in the sky for each location on the earth at any time of day. Like an optical solar telescope, the solar position algorithm pin-points the solar reflector at the sun and locks onto the sun's position to track the sun across the sky as the sun progresses throughout the day. Optical sensors such as photodiodes, light-dependant-resistors (LDR) or photoresistors are used as optical accuracy feedback devices. Lately we also included a section in the book (with links to microprocessor code) on how the PixArt Wii infrared camera in the Wii remote or Wiimote may be used in infrared solar tracking applications. In order to harvest free energy from the sun, some automatic solar positioning systems use an optical means to direct the solar tracking device. These solar tracking strategies use optical tracking techniques, such as a sun sensor means, to direct sun rays onto a silicon or CMOS substrate to determine the X and Y coordinates of the sun's position. In a solar mems sun-sensor device, incident sunlight enters the sun sensor through a small pin-hole in a mask plate where light is exposed to a silicon substrate. In a web-camera or camera image processing sun tracking and sun following means, object tracking software performs multi object tracking or moving object tracking methods. In an solar object tracking technique, image processing software performs mathematical processing to box the outline of the apparent solar disc or sun blob within the captured image frame, while sun-localization is performed with an edge detection algorithm to determine the solar vector coordinates. An automated positioning system help maximize the yields of solar power plants through solar tracking control to harness sun's energy. In such renewable energy systems, the solar panel positioning system uses a sun tracking techniques and a solar angle calculator in positioning PV panels in photovoltaic systems and concentrated photovoltaic CPV systems. Automatic on-axis solar tracking in a PV solar tracking system can be dual-axis sun tracking or single-axis sun solar tracking. It is known that a motorized positioning system in a photovoltaic panel tracker increase energy yield and ensures increased power output, even in a single axis solar tracking configuration. Other applications such as robotic solar tracker or robotic solar tracking system uses robotica with artificial intelligence in the control optimization of energy yield in solar harvesting through a robotic tracking system. Automatic positioning systems in solar tracking designs are also used in other free energy generators, such as concentrated solar thermal power CSP and dish Stirling systems. The sun tracking device in a solar collector in a solar concentrator or solar collector Such a performs on-axis solar tracking, a dual axis solar tracker assists to harness energy from the sun through an optical solar collector, which can be a parabolic mirror,

parabolic reflector, Fresnel lens or mirror array/matrix. A parabolic dish or reflector is dynamically steered using a transmission system or solar tracking slew drive mean. In steering the dish to face the sun, the power dish actuator and actuation means in a parabolic dish system optically focusses the sun's energy on the focal point of a parabolic dish or solar concentrating means. A Stirling engine, solar heat pipe, thermosyphin, solar phase change material PCM receiver, or a fibre optic sunlight receiver means is located at the focal point of the solar concentrator. The dish Stirling engine configuration is referred to as a dish Stirling system or Stirling power generation system. Hybrid solar power systems (used in combination with biogas, biofuel, petrol, ethanol, diesel, natural gas or PNG) use a combination of power sources to harness and store solar energy in a storage medium. Any multitude of energy sources can be combined through the use of controllers and the energy stored in batteries, phase change material, thermal heat storage, and in cogeneration form converted to the required power using thermodynamic cycles (organic Rankin, Brayton cycle, micro turbine, Stirling) with an inverter and charge controller.

A Midsummer Night's Dream: Shakespeare's Syzygy of Meaning ,
No Boundaries Tom Diaz,2011-01-25 An alarming report on Latino crime gangs and the efforts of U.S. law enforcement to contain them
Writing the City in British Asian Diasporas Sean McLoughlin,William Gould,Ananya Jahanara Kabir,Emma Tomalin,2014-07-11 In 1962, the Commonwealth Immigrants Act hastened the process of South Asian migration to postcolonial Britain. Half a decade later, now is an opportune moment to revisit the accumulated writing about the diasporas formed through subsequent settlement, and to probe the ways in which the South Asian diaspora can be re-conceptualised. Writing the City in British Asian Diasporas takes a fresh look at such matters and will have multi-disciplinary resonance worldwide. The meaning and importance of local, multi-local and trans-local dynamics is explored through a devolved and regionally-accented comparison of five British Asian cities: Bradford, the East End of London, Manchester, Leicester and Birmingham. Analysing the ‘writing’ of these differently configured cities since the 1960s, its main focus is the significant discrepancies in representation between differently-positioned texts reflecting both dominant institutional discourses and everyday lived experiences of a locality. Part I offers a comprehensive, yet still highly contested, reading of each city’s archives. Part II examines how the arts and humanities fields of History, Religion, Gender and Literary/Cultural Studies have all written British Asian diasporas, and how their perspectives might complement the better-established agendas of the social sciences. Providing an innovative analysis of South Asian communities and their multi-local identities in Britain today, this interdisciplinary book will be of interest to scholars of South Asian Studies, Migration, Ethnic and Diaspora Studies, as well as Sociology, Anthropology, and Geography.

Lignocellulosic Biorefineries Jean-Luc Wertz,Olivier Bédué,2013-06-27 Written with a diverse audience in mind, this book describes the current status, development, and future prospects for the critical technology of second-generation biorefineries, specifically with a focus on lignocellulosic materials as feedstock. It provides an overview of the issues behind this technological transition, and it provides, in depth, the science and technology related to cellulose for production of bioethanol and other biofuels. The book also highlights the main emerging routes that will serve as the source of important bio-generated products in the future.

The School of Sun Tzu David G. Jones,2012-04-03 In The School of Sun Tzu, author David G. Jones offers a voyage of discovery into the world of competition and conflict. His book presents fresh thought on how issue management without conflict can be applied in today’s complex world. The School of Sun Tzu carefully examines how the empire of China came into being, the leadership of its first emperor, and the role played by his learned academies - which gave us the Tao Te Ching and the Ping-fa by Sun Tzu (incorrectly translated as Art of War). The concepts, values and practices that helped found China defined the greatness of the first empire. History knows of, but has not articulated the revisionist conspiracy of the second empire that worked so hard to discredit all the good that the first had achieved, while leaving it essentially intact. Fusing history, politics, philosophy, and motivational theory, Jones challenges not only conventional wisdom regarding Sun Tzu and Lao Tzu, but even some generally accepted aspects of Chinese history. It offers enlightening insights into a methodology as valid today for relationship management as it was centuries ago.

Common Land in English Painting, 1700-1850 Ian Waites,2012 An examination of the treatment of common land in the work of English painters, at a time when much of it was to disappear forever.
Multimodal Chinese Discourse Dezheng (William) Feng,2023-04-12 This book helps readers to understand communication and society in contemporary China through systematic analysis of multimodal discourse at the national, institutional and individual levels. China has undergone profound changes during the past decade or so. Politically, the Chinese government has been more proactive in domestic governance and foreign policies, as manifested in the Chinese Dream campaign and the national image publicity films respectively. Hand in hand with the socio-political change is the rapid development of new media, which has been changing how corporates do business, how institutions brand their images, as well as how individuals construct their identities and social relations. These changes have brought about significant changes to the discursive practices at the national, institutional and individual levels, characterized by the extensive use of multimodal resources and distinct promotional purposes. Feng systematically investigates and discusses the new discursive features in relation to relevant socio-cultural contexts. The analysis and discussion provide researchers with a social semiotic perspective on various aspects of communicative and social changes in contemporary China. The book also contributes to the growing field of multimodality by developing a set of cross-disciplinary analytical frameworks to deal with complex discourse forms in print media, moving images, and new media. The research findings provide a unique Chinese perspective on a broad spectrum of issues such as discursive governance, nation branding, university marketization, and identity performance. The book is relevant not only to discourse analysis and multimodality, but also to other disciplines which will benefit from a systematic understanding of Chinese discourse, such as cultural studies, communication studies and area/China studies.

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