

RP5: Расписание Погоды

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Полевая учебная практика по общей экологии в дистанционном режиме Н. Озерова, Марина Кривошеина, 2023-02-06 В учебно-методическом пособии обобщен опыт проведения летней полевой практики по общей экологии в условиях пандемии и связанных с этим ограничений. Описана методика проведения полевых и камеральных работ, направленных на приобретение навыков исследования местных экосистем в рамках полевой учебной практики по общей экологии в соответствии с программой курса «Общая экология» по специальности «Экология и природопользование». Полевые исследования и камеральные работы рассчитаны на то, что будут выполняться учащимися по месту пребывания самостоятельно, но под контролем преподавателя в дистанционном режиме. Пособие предназначено для студентов-экологов, а также может быть использовано в учебном процессе студентов других специальностей.

Прикладная информатика No4 (58) 2015, 2022-01-27 Журнал «Прикладная информатика» является преемником одноименного сборника, выпускавшегося с 1981 года издательством «Финансы и статистика». Журнал с 2006 года входит в состав учредителей ряда международных и всероссийских конференций, а также оказывает оргкомитетам информационную поддержку в проведении таких мероприятий. Решением Президиума Высшей аттестационной комиссии (ВАК) Министерства образования и науки РФ журнал «Прикладная информатика» вошел в Перечень ведущих рецензируемых научных журналов и изданий, в которых должны быть опубликованы основные научные результаты диссертации на соискание ученой степени доктора и кандидата наук. Тематика публикаций журнала связана с теоретическими и прикладными аспектами применения компьютерного моделирования и информационных технологий в различных областях профессиональной деятельности. Целевую аудиторию журнала составляют главным образом представители академического сообщества – аспиранты и соискатели ученых степеней и званий, а также преподаватели, студенты и руководители высшей школы, а также практикующие специалисты в области информационных технологий. Основными адресатами предложений о сотрудничестве являются вузы и научно-исследовательские организации, работающие в рамках предметной области журнала, а также IT-компании. Рубрикатор журнала охватывает различные направления научных исследований и практических разработок в данной сфере и включает следующие основные разделы: • IT-бизнес (методики проведения исследований предметной области в различных отраслях предпринимательской деятельности) • IT-менеджмент (вопросы, связанные с организацией производственного процесса) • IT в государственных программах • IT и образование • Подготовка IT-специалистов (информатика выступает как предмет изучения) • E-learning (информатика в качестве инструмента организации учебного процесса) • IT в естественных науках • Инструментальные средства (материалы с акцентом на технологию разработки программного обеспечения) • В преподавательский портфель (материалы учебно-методического характера) • Точка зрения (дискуссионные материалы) • История специальности (материалы данной рубрики будут особенно полезны для молодых специалистов) Журнал выходит 6 раз в год.

Оценка ветроэнергетического потенциала района средствами компьютерного моделирования В. Шакиров, А. Артемьев, 2022-01-27 В статье формулируется проблема оценки ветроэнергетического потенциала района с учетом рельефа местности. Описаны сложности, возникающие при комплексном использовании разнородных программных продуктов для решения задачи оценки ветроэнергетического потенциала. Авторы предлагают методику поиска мест эффективного размещения ветроэнергетических установок, рассматривают применение программных продуктов. Проводится апробация предложенной методики на простых моделях рельефа и путем создания полномасштабной модели рельефа района п. Аян Хабаровского края.

Ветродизельные комплексы в децентрализованном электроснабжении Владимир Тремясов, Алексей Бобров, 2019-07-04 Рассмотрены особенности автономных систем электроснабжения северных населенных пунктов, ветроэнергетический потенциал районов Таймыра и Эвенкии, а также энергетические характеристики ветроэнергетических установок. Значительное внимание уделено вопросам математического моделирования и рационального построения автономных систем электроснабжения с использованием ветродизельных комплексов. Представлены критерии экономической эффективности внедрения ветроэнергетических установок. На примере поселков Таймыра и Эвенкии показаны возможности практического применения подобных систем энергообеспечения. Предназначена для специалистов в области возобновляемых источников энергии и автономных систем энергообеспечения.

Мобильный маркетинг для бизнеса Ирина Ленгард, 2017-09-05 Мобильные технологии окончательно изменили мир бизнеса. Книга показывает, как повлиял #Мобайлгеддон на все отрасли предпринимательства, и какую выгоду из этого может успеть извлечь владелец малого или среднего бизнеса.

ФИЗИКА ОКРУЖАЮЩЕЙ СРЕДЫ, Сборник включает статьи участников XV Международной Школы молодых ученых «Физика окружающей среды» им. А.Г. Колесника. Обсуждаются результаты теоретических и экспериментальных исследований по следующим направлениям: физика атмосферы, ионосферы и магнитосферы, физика солнечно-земных связей, физическая экология, распространение электромагнитных волн в атмосфере, ионосфере и океане, физика и химия атмосферного аэрозоля, радиация и климат, физические основы, методы и аппаратура оптического, радиоволнового и акустического зондирования окружающей среды. Для специалистов в области физики, оптики атмосферы и океана, радиофизики, метеорологии и экологии.

Experiments in Induction Earl B. Hunt, Janet Marin, Philip James Stone, 1966 This book describes an interdisciplinary research project in which computer programs were used to simulate and, in a sense, replace human problem solvers. The research had a dual: to learn more about how people solve complex learning problems and to observe the performance of different varieties of a general learning automaton designed to solve inductive problems which require some learning on the part of the problem solver.

Physiology and Biotechnology Integration for Plant Breeding Henry T. Nguyen, Abraham Blum, 2004-01-14 Global demand for wheat, rice, corn, and other essential grains is expected to steadily rise over the next twenty years. Meeting this demand by increasing production through increased land use is not very likely; and while better crop management may make a marginal difference, most agriculture experts agree that this anticipated deficit must be made up through increased crop yields. The first resource of its kind, Physiology and Biotechnology Integration for Plant Breeding assembles current research in crop plant physiology, plant biotechnology, and plant breeding that is aimed toward improving crop plants genetically while supporting a productive agriculture ecosystem. Highly comprehensive, this reference provides access to the most innovative perspectives in crop physiology – with a special emphasis on molecular approaches – aimed at the formulation of those crop cultivars that offer the greatest potential to increase crop yields in stress environments. Surveys the current state of the field, as well as modern options and avenues for plant breeders and biotechnologists interested in augmenting crop yield and stability With the contributions of plant scientists from all corners of the globe who are actively involved in meeting this important challenge, Physiology and Biotechnology Integration for Plant Breeding provides readers with the background information needed to understand this cutting-edge work, as well as detailed information on present and potential applications. While the first half of the book establishes and fully explains the link between crop physiology and molecular biology, the second part explores the application of biotechnology in the effective delivery of the high yield and environmentally stable crop plants needed to avert the very real possibility of worldwide hunger.

Advances in Bioprocessing Engineering Xiusheng Harrison Yang, Juming Tang, 2002-05-22 This book consists of peer-reviewed articles reporting on the latest developments in several food engineering and agricultural processing laboratories at US land-granted universities. The contributors are leading experts in their respective fields. The topics covered in the book include new food processing technologies (such as high voltage electric field processing and microwave sterilization/pasteurization), conversion of agricultural by-products into high quality refined cellulose or biodegradable plastics, and advances in machine vision inspection and sorting techniques for fruit and vegetable packaging lines. Each chapter begins with a general background review with important references, and ends with the latest results from each research laboratory. Contents: Microwave Heating in Food Processing (J Tang et al.) Improving Safety and Quality of Orange Juice by Pulse Electric Field Processing (Q H Zhang et al.) High-Speed Machine Vision Inspection for On-Line Sorting of Fresh Fruit and

Vegetables (Y Tao & Z Wen) Machine Vision Techniques for Defect Inspection on Fruit Packing Lines (Y Tao & Z Wen) Highly Refined Cellulose from Agricultural Fibrous By-Products (R R Ruan & P L Chen) Biodegradable Plastics from Renewable Biomaterials (S X Sun) Readership: Graduate students and advanced undergraduate students in food and bioprocessing engineering, researchers in related fields, government administrators, and businessmen in agriculture and food science, technology, engineering and business development. Keywords: Microwave; Pulse Electric Field; Sterilization; Pasteurization; Machine Vision; Sorting; Biomaterials, Refined Cellulose; Biodegradable Materials; Plastics; Microwave Heating; Dielectric Properties; Imaging Processing; Machine Vision; Color Sorting; Agricultural By-Products; Biopolymers; Biodegradable Plastics

Photovoltaic Power System Weidong Xiao, 2017-07-24 Photovoltaic Power System: Modelling, Design and Control is an essential reference with a practical approach to photovoltaic (PV) power system analysis and control. It systematically guides readers through PV system design, modelling, simulation, maximum power point tracking and control techniques making this invaluable resource to students and professionals progressing from different levels in PV power engineering. The development of this book follows the author's 15-year experience as an electrical engineer in the PV engineering sector and as an educator in academia. It provides the background knowledge of PV power system but will also inform research direction. Key features: Details modern converter topologies and a step-by-step modelling approach to simulate and control a complete PV power system. Introduces industrial standards, regulations, and electric codes for safety practice and research direction. Covers new classification of PV power systems in terms of the level of maximum power point tracking. Contains practical examples in designing grid-tied and standalone PV power systems. Matlab codes and Simulink models featured on a Wiley hosted book companion website.

Radon in Ground Water National Water Well Assoc., 2020-10-28 This new book focuses on sampling and analysis, radon and radium in water supply wells, predictive models, geologic and hydrogeologic controls that influence radon occurrence, monitoring radon and other radioactivity from geologic sources and mining impacts on occurrence of radioactivity in ground water. Also discussed are occurrence, testing, treatment, and reduction of radon from groundwater. Because the most severe health hazard from indoor radioactivity results from inhalation of short-lived radioactive decay products of radon, the EPA scheduled a major conference early in 1987 on Radon, Radium, and Other Radioactivity in Ground Water-Hydrogeologic Impact and Application to Indoor Airborne Contamination. The result is this book.

Marine Geology and Oceanography of the Arctic Seas Y. Herman, 2012-12-06 Lorsqu'il n'est pas en notre pouvoir de discerner les plus vraies opinions, nous devons suivre les plus probables. -Rene Descartes When, in the early 1960's I undertook to cover, due to limitations imposed by a single study Arctic Ocean deep-sea cores, I did not volume. anticipate that 10 years later the climatic history Although not comprehensive, it is hoped that of the north polar basin would be still a matter of this book will provide an insight into the current debate. Although much new data have accumulated status of Arctic research and will also serve as a guide in various fields of Arctic.

Dynamics of Ice Cover L. A. Timokhov, 1984

Novel Methods for Monitoring and Managing Land and Water Resources in Siberia Lothar Mueller, Askhad K. Sheudshen, Frank Eulenstein, 2015-11-15 This book presents an analysis of land and water resources in Siberia, initially characterizing the landscapes, their ecosystems, crucial processes, human impacts on soil and water quality, and the status quo of available research. Further chapters deal with modern monitoring and management methods that can lead to a significant knowledge shift and initiate sustainable soil and water resources use. These include soil hydrological laboratory measurement methods; process-based field evaluation methods for land and water quality; remote sensing and GIS technology-based landscape monitoring methods; process and ecosystem modeling approaches; methods of resource and process evaluation and functional soil mapping; and tools for controlling agricultural land use systems. More than 15 of these concrete monitoring and management tools can immediately be incorporated into research and practice. Maintaining the functions of great landscapes for future generations will be the reward for these efforts.

Dynamics and Control of Advanced Structures and Machines Valerii P. Matveenko, Michael Krommer, Alexander K. Belyaev, Hans Irschik, 2019-03-08 The volume includes 30 contributions from the 3rd International Workshop on Advanced Dynamics and Model Based Control of Structures and Machines representing the frontiers in the mechanics of controlled machines and structures. The Workshop, held in Perm, Russia in September 2017 continued a series of international workshops, starting in with the Japan - Austria Joint Workshop on Mechanics and Model Based Control of Smart Materials and Structures, the Russia - Austria Joint Workshop on Advanced Dynamics and Model Based Control of Structures and Machines and the first two editions of the International Workshop on Advanced Dynamics and Model Based Control of Structures and Machines. The previous workshops took place in Linz, Austria in September 2008 and April 2010, in St. Petersburg, Russia in July 2012 and in Vienna, Austria in September 2015. The up-to-date contributions are authored by internationally re-known leading experts in dynamics and control representing a broad spectrum of topics in the field of Advanced Structures and Machines; both, with respect to theoretical aspects as well as applications to contemporary engineering problems.

Sahelian Droughts Anthony Elmit Hall, 2017 The Sahelian zone stretches across Africa from Senegal and Mauritania in the west to Sudan in the east, passing through Mali, Burkina Faso, Niger and Chad. The Sahel transition zone is adjacent to the southern boundary of the Sahara Desert, and its agriculture usually is limited by droughts. Since 1970, the droughts have been even more extreme, and major food crops produced little food/forage for livestock for many years. Millions of people living in the Sahel have suffered from famine and hundreds of thousands of people have died. As of 1974, it was estimated that the livestock population had decreased by about 80%. In the early 1970s, while working as an agronomist/ Professor at the University of California in Riverside and conducting collaborative research in Senegal, Dr. Hall designed a partial agronomic solution to these droughts. In implementing this solution, he collaborated with African students and scientists to breed cowpea varieties that could withstand these droughts and provide food for people and livestock alike. Early-flowering cowpea varieties with resistance to drought, various pests and diseases were bred by researchers in California, Senegal, Sudan and Ghana. Cowpea varieties were released in Senegal, Sudan and Ghana that have produced significant amounts of food in years when traditional cowpea varieties and other staple food crops died out. Enhanced cowpea breeding and agronomy programs now are being conducted by African scientists in Senegal, Burkina Faso, Niger, Cameroon, Nigeria, Ghana and Sudan.

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 dying 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.

Methods Of Teaching Physics M. Vanaja,2004 Contents: Introduction, The Correlation, The Attitudes, The Concept, Objectives and Aims, Role of Teacher, Teaching Aids, Teaching Methods-1, Teaching Methods-2, Planning Lessons, Process of Enrichment, The Curriculum, Process of Evaluation, The Laboratories, Science Club.

The Economics of the Global Environment Graciela Chichilnisky,Armon Rezai,2017-05-18 This is the first book combining research on the Global Environment, Catastrophic Risks and Economic Theory and Policy. Modern economic theory originated in the middle of the twentieth century when industrial expansion coupled with population growth led to a voracious use of natural resources and global environmental concerns. It is uncontested that, for the first time in recorded history, humans dominate the planet, changing the planet's atmosphere, its bodies of water, and the complex web of species that makes life on earth. This radical change in circumstances led to rethinking of the foundations of human organization and, in particular, the industrial economy and the economic theory behind it. This book brings together new approaches on multiple levels: environmental sustainability requires rethinking in terms of economic theory and policy as well as the considerations of catastrophic risk and extremal events. Leading experts address questions of economic governance, risk management, policy decision making and distribution across time and space.

Art Without Waste Patty Wongpakdee,2014-10 Art Without Waste features 500 upcycled and Earth-friendly designs from cutting-edge designers, illustrators and artists around the world. With a broad scope of alternative uses for discarded items, such as bottle caps, gas cans, and skateboards, the designs featured in this book also explore new uses for sustainable resources such as wood, straw, and paper. This is a gorgeous and inspiring collection of works from artists whose approach often incorporates eco-friendly principles such as upcycling, with sustainability as a central goal. Find inspiration from an array of non-traditional artists and designers. Some have invented new techniques, while others have harnessed a creative passion into manipulated materials, resulting in dynamic forms that encourage audiences to perceive discarded items in an entirely new light. So don't just throw away that bottle or plastic cap- recycle it into your own exciting art projects.

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