

Read Free Vray For Sketchup Installation Guide

Vray For Sketchup Installation Guide

Con ç u à l'origine pour les architectes et les designers, SketchUp est un logiciel de dessin en 3D simple, rapide et intuitif. L'objectif de cet

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ouvrage est d'apprendre par l'exemple : les fonctions essentielles de SketchUp sont expliquées à l'aide d'exemples et d'exercices concrets couvrant une grande variété d'utilisations. La quasi-totalité des exercices présentés sont

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réalisables avec SketchUp Make, la version gratuite. Contenu :

L'installation et la présentation de SketchUp. Les outils de base de dessin, de construction et de modification. Le placement des matières colorées et texturées.

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L'utilisation des groupes et des composants. Le géo positionnement et l'orientation du modèle.

L'importation de plans CAO (au format DWG) et la production d'images animées. La modélisation étape par étape d'une villa, de

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L'enveloppe extérieure jusqu'à
l'aménagement du jardin et des
espaces intérieurs en passant par la
création de meubles.

This book details Practical Solar
Energy Harvesting, Automatic Solar-
Tracking, Sun-Tracking-Systems,

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Solar-Trackers and Sun Tracker Systems using motorized automatic positioning concepts and control principles. An intelligent automatic solar tracker is a device that orients a payload toward the sun. Such programmable computer based solar

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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

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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

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cassegrain solar energy collectors to face the sun and follow the sun movement contour continuously. In general, the book may benefit solar research and solar energy applications in countries such as Africa, Mediterranean, Italy, Spain, Greece,

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USA, Mexico, South America,
Brazilia, Argentina, Chili, India,
Malaysia, Middle East, UAE, Russia,
Japan and China. This book on
practical automatic Solar-Tracking
Sun-Tracking is in .PDF format and
can easily be converted to the .EPUB

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.MOBI .AZW .ePub .FB2 .LIT .LRF
.MOBI .PDB .PDF .TCR formats for
smartphones and Kindle by using the
ebook.online-convert.com facility.
The content of the book is also
applicable to communication antenna
satellite tracking and moon tracking

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algorithm source code for which links to free download links are provided.

In harnessing power from the sun through a solar tracker or practical solar tracking system, renewable energy control automation systems require automatic solar tracking

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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

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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

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precision sun position calculator or sun position algorithm is this an important step in the design and construction of an automatic solar tracking system. From sun tracing software perspective, the sonnet Tracing The Sun has a literal meaning.

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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

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computer software for tracing the sun are available as open source code, sources that is listed in this book. 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.

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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

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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

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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

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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

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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,

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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)

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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

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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

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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

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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

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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

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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,

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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

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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

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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

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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

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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

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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,

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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

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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

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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

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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

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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

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(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

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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

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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

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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

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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),

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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

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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

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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

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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

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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.

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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,

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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.

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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

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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,

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micro turbine, Stirling) with an inverter and charge controller.

Solar-Tracking, -Tracking-
Systems, Solar-

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Tracker Systems.

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. 這本書詳細介紹了全自動太陽能跟踪，太陽跟

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踪系統的出現，太陽能跟踪器和太陽跟踪系統。智能全自動太陽能跟踪器是定向向著太陽的有效載荷設備。這種可編程計算機的太陽能跟踪裝置，包括太陽跟踪，太陽能跟踪系統，以及微控制器，微處理器和/或基於PC機的太

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陽跟踪控制，以定向太陽能反射器，太陽透鏡，光電板或其他光學配置朝向太陽的原理。機動空間框架和運動系統，確保運動動力學和採用的驅動技術和傳動原理引導光學配置，如曼金，拋物線，圓錐曲線，或卡塞格林式太

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陽能集熱器面向太陽，不斷跟隨太陽運動的輪廓。從陽光透過太陽能跟踪器或實用的太陽能跟踪系統利用電力，可再生能源控制的自動化系統需要自動太陽跟踪軟件和太陽位置算法來實現控制與自動化架構，電路板和硬件的

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動態運動控制。上軸太陽跟踪系統，如高度，方位角雙軸或多軸太陽跟踪系統使用太陽跟踪算法或光線追蹤傳感器或軟件，以確保通過天空中太陽的通道被跟踪的高精度的自動太陽跟踪器的應用，通過正確的夏至，春分太陽

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和冬至。一種高精度太陽位置計算器或太陽位置算法是這樣的自動太陽能跟踪系統的設計和施工中的重要一步。

Con ç u à l'origine pour les architectes et les designers, SketchUp est un logiciel de dessin en 3D simple,

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rapide et intuitif. L'objectif de cet ouvrage est d'apprendre par l'exemple. Les fonctions essentielles de SketchUp sont expliquées à l'aide d'exemples concrets couvrant une grande variété d'utilisations, et réalisables avec la version gratuite de

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SketchUp. Cette nouvelle édition prend en compte les nouvelles fonctionnalités de SketchUp 2018. La quasi-totalité du contenu du livre reste valide pour les versions précédentes.

Design almost anything in 3D with

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SketchUp Whether you've dabbled in drawing in 3D or are interested in learning the basics of design, SketchUp For Dummies makes it fast and easy to learn the ropes of a powerful, user-friendly tool to bring your design ideas to life. From

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creating a basic 3D model to showing off your work via 3D print or animation, this all-access guide pulls back the curtain on using SketchUp to do anything from redesigning your house to mocking up the next great invention. With an emphasis on

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usability, SketchUp has found very wide success as a tool even non-designers can use to make basic drawings. And now, thanks to the insight and expert tips from former SketchUp product director Aidan Chopra and co-author Rebecca

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Huehls, this easy-to-follow guide
makes it more accessible than ever!
Create buildings and components
Alter the appearance of your model
Tour your designs via SketchUp Get
quick tips on troubleshooting If
you're a designer with sketchy

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computer modeling skills, SketchUp For Dummies is the trusted reference you'll turn to again and again.

On Design, Weather, and Sensation
Photographic Rendering with V-Ray
for SketchUp

Architectural Rendering with 3ds

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Max and V-Ray

SketchUp for Site Design

Corona Renderer. The Complete
Guide

Google SketchUp 7 For Dummies

The updated edition of a
contemporary approach to merging

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traditional hand drawing methods with 2-dimensional and 3-dimensional digital visualization tools. Jim Leggitt's Drawing Shortcuts shows how communicating with hand drawings combined with digital technology can be ingeniously simple, and this

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new edition makes an already popular technique even better. Completely expanded with new chapters and a wealth of supporting images, this Second Edition presents practical techniques for improving drawing efficiency and effectiveness by combining

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traditional hand drawing methods with the latest digital technology, including 3-D modeling with SketchUp. This book's step-by-step approach will sharpen and streamline your techniques whether you draw for pleasure, school or your design profession. Easy-to-

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follow instructions cover every aspect from the basics of drawing?such as composition, color, shading, hatching, and perspective?up to the most current technologies Incorporates Google SketchUp, Google Earth, computer generated renderings, digital

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scanners and printers Features new
visuals from accomplished drawing
experts Special new ?Gallery?
section highlights the creative
process with step-by-step examples
of drawings Complete coverage of
the ?Overlay and Trace Method,?
?Simple Composite Method,?

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?Advanced Composite Method,?
and ?Digital Hybrid Drawings? New
matrices show alternative drawing
techniques for specific visual
effects such as Linework and
Shading, Selecting the Right Views,
Perspectives and Paraline
Drawings, Drawing Detail, Camera

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Lenses, and Drawing Tools

Generously enriched with detailed process drawings, examples, and more than 500 full-color images, Drawing Shortcuts, Second Edition will have you creating top-quality drawings faster and more effectively.

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Google SketchUp is the exciting free software package that makes 3D available to everybody. Whether you need to build 3D models for work, or you've just always wanted to explore 3D modeling, Google SketchUp was made for you. Still, it does take a bit of understanding to

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get started, so turn to Google SketchUp 7 For Dummies. In classic For Dummies tradition, Google SketchUp 7 For Dummies gets right to the point so you can start creating 3D models right away. You'll learn to: Set up SketchUp, learn about edges and faces, use

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inferences and guides, and build your first model Establish a basic end-to-end workflow for creating and sharing models Model non-boxy objects like terrain, characters, bottles, and spheres Add details like stairs, gutters, and eaves Spruce up your models with

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styles and shadows to add effects, make objects pop, and enhance realism Use the LayOut function to draw with vector tools, add text and callouts, and print your work Design buildings and objects, export your models to other design programs or to Google Earth, and

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explore 3D animation On the book's companion Web site, you'll also find a bonus chapter and videos demonstrating more about what you can do with Google SketchUp. Google SketchUp 7 For Dummies also shows you what SketchUp can and can't do, and

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offers tips for solving common problems. Add a new dimension to your work today!

Create high-quality photorealistic renders of architectural visualizations using 3ds Max and Vray with the project-based tutorials in this book. Learn how to

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combine lighting and rendering options to end-up with the most realistic final renders possible at a professional level. The tutorials in this book are filled with beautiful full-color images and they teach you how to light both interiors and exteriors and daytime and nighttime

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scenes. Learn how to save time without sacrificing the quality of your final renders with tips and tricks on rendering with Vray - the most accurate rendering application for 3ds Max. The companion CD includes all the project files that you need to recreate each of the

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projects presented within the book. Lumion is a real-time 3D technology that lets you create amazing visualizations without the need for long rendering hours. Lumion 3D Best Practices covers the most important Lumion features and techniques that can be incorporated

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in to any real production environment. Each chapter covers a different stage of a production workflow. The first two chapters provide a good foundation, in particular for when creating content for Lumion. Furthermore, the book provides an efficient workflow by

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covering two classic visualization scenes: interior and exterior scenes. You then get to know the best techniques to create physically based materials that boost the look and realism of any 3D scene. Special chapters are reserved to create efficient animations, still

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images and movies. By the end of this practical guide, users will be familiar with the professional and effective techniques to increase efficiency in producing high-end quality visualizations in Lumion. Harvard Design School Guide to Shopping

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BIM Handbook

Solar Tracking, Inseguimento

Solare, Sol Tracking, Sol de

Seguimiento : High precision solar
position algorithms, programs,
software and source-code for
computing the solar vector, solar
coordinates & sun angles in

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Microprocessor, PLC, Arduino, PIC
and PC-based sun tracking devices
or dynamic sun following hardware

Atmosphere Anatomies

Practical Solar Tracking Automatic

Solar Tracking Sun Tracking

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SketchUp For Dummies

**The newly updated guide
to design process
modeling techniques
Designing with Models,
Third Edition is the
revised, step-by-step**

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**guide to basic and
advanced design process
modeling. This
comprehensive text
explains the process
from start to finish,
and has been expanded to**

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**include up-to-date
information on digital
modeling programs and
rapid prototyping
processes. The impact of
this new wave of 3D
modeling technology is**

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**examined through
interviews and numerous
examples from renowned
architects. Along with
many new student
projects, this new Third
Edition features**

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information on cutting-edge digital imaging equipment and design software, as well as many new process models from celebrated professional projects.

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**Architect Criss Mills
acquaints architecture
and design professionals
with essential modeling
terms, design processes,
equipment, materials,
and construction**

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**methods. Fully updated
with nearly 200 new
photos and twenty-six
new projects from
students and firms,
Designing with Models,
Third Edition walks**

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**readers through the
basics of: Material and
tool selection
Construction techniques
Determining scale
Generating ideas
Exploring design**

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**processes and
alternatives Modifying
design work directly on
the model Developing
design work through
modeling scale Offering
increased emphasis on**

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**transitioning from hand
craft to digital craft,
this thorough Third
Edition also provides
easy-to-follow
guidelines for modeling
with advanced tools and**

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**materials, demonstrating
how to: Master the
modeling of curvilinear
components with planar
material and casting
techniques Explore ideas
with mixed media, such**

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**as wood, found objects,
metal rods and screens,
clay, and Plexiglas Work
backwards from model
information to produce
2D plan, section, and
elevation drawings**

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**Record and communicate
3D design work Begin
exploring the safe and
effective use of power
tools, such as belt
sanders, table saws,
drills, band saws, and**

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welding equipment
“What's my DNA?” Virgil
Abloh asks to an
overflowing auditorium
at the Harvard
University Graduate
School of Design. Abloh

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goes on to provide his audience with a “cheat code”—advice he wishes he had received as a student. He then unpacks a series of “shortcuts” for cultivating a

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“personal design language.” Trained as an architect and engineer, Abloh has translated the tools and techniques of his student days into the world of fashion,

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**product design, and
music. His label, Off-
White, works in seeming
contradictions, marrying
streetwear with couture,
collaborating with
brands like Nike, Ikea,**

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**and the Red Cross;
musicians like Lil Uzi
Vert and Rihanna; and
“mentors” like Rem
Koolhaas. Impervious to
hurdles (“They literally
don't exist.”), Abloh**

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takes us behind the scenes of his design process, sharing the essentials of editing, problem-solving, and storytelling. He paints a picture of his DNA,

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and then flips the question: What's your DNA? The Incidents is a series of publications based on events that occurred at the Harvard University Graduate

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**School of Design between
1936 and tomorrow.**

**Edited by Jennifer
Sigler and Leah Whitman-
Salkin Copublished with
the Harvard University
Graduate School of**

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Design

**The sure way for design
professionals to learn
SketchUp modeling and
rendering techniques
Rendering In SketchUp
provides instructions**

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**for creating 3D
photoreal graphics for
SketchUp models using
integrated rendering
programs. The book
serves as a beginner
rendering manual and**

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**reference guide to
further develop
rendering skills. With
an emphasis on step-by-
step process, SketchUp
users learn a universal
approach to rendering**

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**varied SketchUp
projects, including
architecture, interiors,
and site design models.
The book focuses on
tasks and principles at
the core of**

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**photorealistic
rendering, including:
Rendering process: Learn
a step-by-step process
focused on workflow
within SketchUp's
familiar workspace.**

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**Universal method:
Understand how the
process can be used to
work with a variety of
different integrated
rendering programs,
including Shaderlight,**

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**SU Podium and Twilight
Render**.** These programs
are easy to learn and
function in SketchUp. >
Textures and materials:
Discover how to obtain,
apply and edit texture

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**images representing
surfaces. Component
details: Learn how to
acquire and organize
model details to allow
for rich, expressive
settings while**

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maintaining computer and SketchUp performance. Exterior and simulated lighting: Learn to set exterior lighting with the SketchUp's Shadow menu or illuminate a

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scene with simulated lights, lamps, and bulbs. Render settings: Use specific settings for various rendering programs to quickly set texture character, image

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**quality, and graphic
output. Computer
specifications: Find out
how computers produce
renders and the type of
computer hardware
required to streamline**

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**the process. Photoshop
post-processing: Learn
how to further refine
rendered images in
Photoshop. **Free online
chapters: The book
reviews specific**

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**settings for SketchUp
and the rendering plug-
in Shaderlight. Given
the ever-changing nature
of technology, free,
online accompanying
chapters detail settings**

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**for additional
integrated rendering
programs including SU
Podium, Twilight Render,
and more.**

**This book weaves a much
needed and**

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**transformational
narrative about making
architecture through
paying close attention
to cross-laminated
timber as a material for
today. The material**

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**becomes the site of
experimentation,
innovation, and research
in search of specific
meanings of CLT in
architecture at various
scales by selecting the**

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"CLT Blank" as the building unit. The structure of the book brings together work and texts from a diverse group of theorists and practitioners, who make

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**material central to
their inquiry, to
suggest design
approaches that will
broaden the cultural,
spatial, and
technological**

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**significance for
architecture, education,
engineering, and
industry. The outcome
focuses on materiality
through fast slippages
between art,**

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**architecture, and
science, that we hope
will invigorate and
expand new discourse to
act as an antidote to
the current
conversations about the**

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**material, that is
fixated on its making
and mass production,
disappointingly
portraying it as a bland
and lifeless product--a
notion we want to be**

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**distant from in
preference to seeking
areas we feel were not
yet conceptualized or
theorized. The potential
to see the spatial
properties of its use**

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**and what kind of world
that might suggest is
shown in the book, with
selected striking visual
materials, to reposition
its architecture though
new forms of**

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representation and responses that continue to stay in touch with pragmatics. Aesthetics of CLT with a connection to wood and art practice is a central thread

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**though the book.
Real World Google
SketchUp 7
Sun Tracking and Solar
Renewable Energy
Harvesting
A Practical Designer's**

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**Guide to Creating
Realistic Imagery Using
V-Ray & 3ds Max
Architectural Design
with SketchUp
Beginner's Guide AutoCAD
2013**

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**Everything Interior
Designers Need to Know
Every Day**

*Increase the photorealism of
your 3d visualizations with
enhanced toolsets of V-Ray 5
for 3ds Max 2020. The book is*

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filled with colorful illustrations depicting step-by-step tutorials about the process of creating a photorealistic day-and-night exterior scene. Each tutorial includes a 3d project scene to guide users through the

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production and the post-production processes. The book begins with an overview of the best techniques to approach clients via emails, calls, meetings, and via social media. There are also key insights into the best

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practices of handling projects, pricing, contracts, invoices, the pre-production, production, and the post-production, to name but a few. Throughout the book, users are taken through VRayMtl functions such as

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Diffuse, Roughness, Reflect, Glossiness, Metalness, Refract, Index of Refraction (IOR), Abbe number, Fog color, Translucency, BRDF, Coat, Sheen, and Bump. Also, users will learn how to use procedural maps such as

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***VRayBitmap,
VRayTriplanarTex, Bricks,
Metals, Carpaint,
VRayDisplacementMod,
VRayUVWRandomizer,
VRayMultiSubTex,
VRayPointCloudColor,
VRayDirt,***

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***VRayAerialPersepective,
VRayLightMtl,
VRayMtlWrapper,
VRayOverrideMtl,
VRay2SidedMtl,
VRayBlendMtl, and
VRayEdgesTex. In addition,
there are tips and tricks***

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accompanied with videos highlighting how to create VR interactive apps using Verge 3d; how to create verified views; and how to use plug-ins and scripts such as Project Manager, Auto grid pivot point, GarageFarm,

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***Zmapping, gobotree, and
VISHopper. Finally, users will
have a rare insight into all
functionalities of a VRay
camera, VRayLight objects,
Render settings, Frame
buffer, Global switches, IPR
options, Bucket and***

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***Progressive image samplers,
Image filters, Global DMC,
Color mapping, Brute force
global illumination, Light
cache, Color management,
Distributed rendering, Render
elements, VRay image file
format, VFB History settings,***

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***VFB Lens Effects, LightMix,
Film tonemap,
Hue/Saturation, Lookup
Table, and much more. Key
Features This book deals with
real projects/3d scenes and
delivers up-to-date V-Ray 5
functionalities and production***

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***workflows using 3ds Max 2020
This book has professional
supporting files ready to open
and explore This book details
the meticulous step-by-step
processes of creating jaw-
dropping 3d renderings This
book includes unrivaled in-***

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***depth coverage of V-Ray 5 for
3ds Max 2020 This book
includes 3d rendering
methodologies currently used
by key industry players Author
Jamie Cardoso is a renowned
author, reviewer, computer
artist, and technologist, with***

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***years of experience in
creating state-of-the-art 3d
photomontages, verified
views, VR, AR, XR, MR,
Stereos, and photorealistic
interior and exterior
visualizations for architects
and designers.***

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Go beyond the basics: making SketchUp work for you
Architectural Design with SketchUp, Second Edition, is the leading guide to this incredibly useful tool for architects, interior designers, construction professionals,

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and makers. With easy to follow tutorials that first brush up on the basics of the program and then cover many advanced processes, this resource offers both informative text and full-color illustrations to clearly convey

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the techniques and features you need to excel. The updated second edition has a new chapter that explains how to make things with SketchUp, and covers 3D printing, design to fabrication, CNC milling, and

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laser cutting. Other chapters also now cover Building Information Modeling (BIM) and 3D web content generation. Additionally, the revised text offers insight into the latest products and plugin extensions, navigation

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methods, import/export options, and 3D model creation features to ensure you have an up to date understanding of how to make SketchUp help you meet your project goals. A leading 3D modeling application,

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SketchUp features documentation capabilities through photorealistic renderings and construction drawings. Because of its ease of use and ability to be enhanced with many plugin extensions for project-specific

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applications, SketchUp is considered the tool of choice for professionals in the architecture, interior design, construction, and fabrication fields. Access thoroughly updated information in an easy to understand writing

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***style Increase your efficiency
and accuracy when using
SketchUp and refresh and
supplement your
understanding of SketchUp's
basics Explore component-
based modeling for assembly,
scheduling, collaborative***

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***design, and modeling with a
BIM approach Find the right
plugin extensions and
understand how to best work
with them See how easy it is
to generate presentation-
ready renderings from your
3D models Learn how you can***

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***use 3D printing, CNC milling,
and laser cutting to make
things with SketchUp Use
cookbook-style Ruby coding to
create amazing 3D objects
Supplement your knowledge
with video tutorials, sample
files, and Ruby scripts via a***

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***robust companion website
Architectural Design with
SketchUp, Second Edition, is
an integral resource for both
students and professionals
working in the architecture,
interior design, construction,
and fabrication industries.***

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Discover the secrets of the Google SketchUp with the 16 real-world professional-level projects including parks, structures, concept art, and illustration. Google SketchUp Workshop includes all the wide variety of projects that

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***SketchUp can be used for-
architectural visualization,
landscape design, video game
and film conception, and
more. SketchUp masters in
every field will get you up to
speed in this agile and
intuitive software and then***

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***show you the real uses with
through projects in
architecture, engineering, and
design.***

***Conçu à l'origine pour les
architectes et les designers,
SketchUp est un logiciel de
dessin en 3D simple, rapide et***

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intuitif. L'objectif de cet ouvrage est d'apprendre par l'exemple. Les fonctions essentielles de Sketch Up sont expliquées à l'aide d'exemples et d'exercices concret couvrant une grande variété d'utilisations, et réalisables

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avec la version gratuite de Sketch Up. Cette nouvelle édition prend en compte Sketch Up 2017 qui s'enrichit de très nombreux nouveaux composants disponibles dans la 3D Warehouse, une gigantesque collection

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d'éléments de construction en 3D en accès gratuit. La quasi-totalité du contenu du livre reste valide pour les versions précédentes.

SketchUp - Guide pratique - 4e éd.

SketchUp - Guide pratique -

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2e éd.

SketchUp for Interior Design

***The SketchUp Workflow for
Architecture***

A Studio Guide to

Architectural Process Models

Rendering with AutoCAD

Using NXtRender

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V-Ray My Way: A Practical Designers Guide to Creating Realistic Imagery Using V-Ray & 3ds Max is a practical, hands-on guide to creating some of the most stunning computer-generated images possible. It caters to the

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*design masses; architects,
engineers, interior designers,
industrial designers, photographers,
and enthusiasts will find this book
essential in their quest to express
themselves through visual
communication. V-Ray My Way is*

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*an accumulation of 13 years of
experimental experience and will
have you creating content within
minutes, help grow your company,
help develop your portfolio, and
help you make that career leap.
Additional resources and exercises*

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*are available at the book's
companion website, http://routledge.com/textbooks/_author/wylde-9780415709637/.*

*How will the human body, collective
and individual, cope with the
estimated increases in global air*

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*temperatures and in the earth's
corresponding thermal stress?*

*Atmosphere Anatomies: On Design,
Weather, and Sensation offers an in-
depth examination of design
strategies that situate the body and
its bioclimatic milieu at the core of*

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their spatial formation. Drawing upon ten paradigmatic projects in urban design and landscape architecture - from Rousham Gardens, Oxfordshire, to the city of Chandigarh in India - the book investigates the designers'

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bioclimatic aims and their spatial outcomes. Woven throughout the book, the evocative photographic essays of Iwan Baan showcase the selected projects as inhabited spaces for everyday life.

Create beautiful 3D models and

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*presentations with SketchUp Pro
and LayOut. SketchUp to LayOut,
2nd edition is a complete beginner's
guide for learning SketchUp and
LayOut. Effortlessly turn your ideas
into 3D models using SketchUp,
then document them in SketchUp's*

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*companion drawing program,
LayOut. Even if you've never
designed in 3D before, this book will
guide you step by step. In addition to
developing a complete
understanding of SketchUp and
LayOut basics, you'll learn*

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advanced topics that will build upon your new skills: Learn the five steps to creating scenes in SketchUp that will give you full control over the look of your SketchUp models in LayOut. Master the most important modeling concepts, such as model

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organization, object visibility, tag theory, and level of detail, to become more efficient and enable faster editing of your projects. Discover several advanced techniques to develop custom workflows that work best for you

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*and your preferences. The only book
you'll need to master SketchUp &
LayOut!*

*How do you tell the story of a
friendship? How do you trace the
roots of one of the most significant
cross-disciplinary unions in fashion*

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today? Artist Sterling Ruby and fashion designer Raf Simons did just that when they sat on stage with curator Jessica Morgan at the Harvard University Graduate School of Design. Offering complimentary perspectives on a

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bond that has matured over the span of a decade, and a body of work that transcends boundaries, Ruby and Simons spoke with mutual respect, trust, and a deep investment in the future. This is a story, and an exchange, that is beyond

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collaboration. The Incidents is a book series based on uncommon events at the Harvard University Graduate School of Design from 1936 to tomorrow. Edited by Jennifer Sigler and Leah Whitman-Salkin Contribution by Jessica

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*Morgan Copublished with the
Harvard University Graduate
School of Design*

Beyond the Collaboration

Visualizing Architecture Volume 4

Photorealistic Visualization

The Interior Design Reference &

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Specification Book

Automatic Solar Tracking Sun

Tracking Satellite Tracking

rastreador solar seguimiento solar

seguidor solar automático de

seguimiento solar

Chiaroscuro with V-Ray. Lighting

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Techniques, Materials, and Exercises for Photorealistic Rendering

An architecture portfolio designed by Alex Hogrefe describing 4 original projects with a focus on unique representational techniques and styles.

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Buku Persembahan penerbit

MediaPressindoGroup #Mediakom

A guide for leveraging SketchUp for any project size, type, or style. New construction or renovation. The revised and updated second edition of The SketchUp Workflow for Architecture offers guidelines for taking SketchUp to

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the next level in order to incorporate it into every phase of the architectural design process. The text walks through each step of the SketchUp process from the early stages of schematic design and model organization for both renovation and new construction projects to final documentation and shows how to

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maximize the LayOut toolset for drafting and presentations. Written by a noted expert in the field, the text is filled with tips and techniques to access the power of SketchUp and its related suite of tools. The book presents a flexible workflow method that helps to make common design tasks easier and gives users the information

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needed to incorporate varying degrees of SketchUp into their design process. Filled with best practices for organizing projects and drafting schematics, this resource also includes suggestions for working with LayOut, an underused but valuable component of SketchUp Pro. In addition, tutorial videos compliment the text and

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clearly demonstrate more advanced methods. This important text: Presents intermediate and advanced techniques for architects who want to use SketchUp in all stages of the design process Includes in-depth explanations on using the LayOut tool set that contains example plans, details, sections, presentations, and other

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information Updates the first edition to reflect the changes to SketchUp 2018 and the core functionalities, menus, tools, inferences, arc tools, reporting, and much more Written by a SketchUp authorized trainer who has an active online platform and extensive connections within the SketchUp community Contains

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accompanying tutorial videos that demonstrate some of the more advanced SketchUp tips and tricks Written for professional architects, as well as professionals in interior design and landscape architecture, The SketchUp Workflow for Architecture offers a revised and updated resource for using

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SketchUp in all aspects of the architectural design process.

This book is filled with examples explaining the theoretical concepts behind them. Filled with sample screenshots, diagrams, and final rendered images, this book will help readers develop an understanding of photographic rendering

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with V-Ray. If you are a SketchUp user who would love to turn your favourite modelling application into a 'virtual photography studio', then this book has been designed and written for you. Existing V-Ray users will also find plenty to enjoy and benefit from in this book. Some basic experience with SketchUp and

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familiarity with photography will be helpful, but is not mandatory.

Solar Energy Harvesting, Trough,
Pinpointing and Heliostat Solar Collecting
Systems

Rendering in SketchUp

3D Modeling, Extensions, BIM,

Rendering, Making, and Scripting

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Speculations on CLT

A Guide to Modeling Site Plans, Terrain,
and Architecture

Photographic Rendering with V-Ray for
SketchUp

A practical guide to
SketchUp addressing the
specific needs of interior

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designers Already a common and popular tool for architects and landscape architects, SketchUp is increasingly finding a place in the professional workflow of interior

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designers. SketchUp for Interior Design is a practical introduction for interior designers and students who want to learn to use the software for their unique needs. The

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book covers the basics of creating 3D models before showing how to create space plans, model furniture, cabinetry, and accessories, experiment with colors and materials,

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incorporate manufacturers' models into project plans, and create final presentations and animated walk-throughs for clients. Each chapter includes clear explanations and

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helpful illustrations to
make this an ideal
introduction to the topic.
Includes downloadable
sample models and 39
tutorial videos Features
sample questions and

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activities for instructors
and additional online
resources for students and
self-learners Provides
instruction on using
SketchUp in both PC and
Mac formats

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Learn how to use nXtRender to create stunning images from your AutoCAD drawings. Turn your AutoCAD designs into beautifully rendered, high-resolution images. Add lights,

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materials, skies, etc. to create Photorealistic renderings directly from AutoCAD>Create photo-realistic, still, panorama and animation images files from 3D models using

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raytracing and radiosity technologies. This reference manual has Tutorials, explanations of rendering terms, and specific instructions for Wizards to help you use

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nXtRender for AutoCAD. Step-by-step examples will make it easy to learn how to render with AutoCAD. Examples, Images and information on rendering tems and

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capabilities which you can use to improve your renderings.

This book is filled with examples explaining the theoretical concepts behind them. Filled with

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ample screenshots, diagrams, and final rendered images, this book will help readers develop an understanding of photographic rendering with VRay. If you are a

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SketchUp user who would love to turn your favourite modelling application into a virtual photography studio', then this book has been designed and written for

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you. Existing V-Ray users will also find plenty to enjoy and benefit from in this book. Some basic experience with SketchUp and familiarity with photography will be

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helpful, but is not mandatory.

DIV In the world of interior design, thousands of bits of crucial information are scattered across a wide array of

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sources. The Interior Design Reference & Specification Book collects the information essential to planning and executing interior projects of all shapes and

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sizes, and distills it in a format that is as easy to use as it is to carry. You'll also find interviews with top practitioners drawn across the field of interior

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design. —Fundamentals provides a step-by-step overview of an interiors project, describing the scope of professional services, the project schedule, and the design

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and presentation tools used by designers. —Space examines ways of composing rooms as spatial environments while speaking to functional and life-safety concerns.

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- Surface identifies options in color, material, texture, and pattern, while addressing maintenance and performance issues.
- Environments looks at

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aspects of interior design that help create a specific mood or character, such as natural and artificial lighting, sound and smell. —Elements describes the selection

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and specification of furniture and fixtures, as well as other components essential to an interior environment, such as artwork and accessories.
—Resources gathers a

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wealth of useful data,
from sustainability
guidelines to online
sources for interiors-
related research. /div
V-Ray My Way
Drawing Shortcuts

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High precision solar position algorithms, programs, software and source-code for computing the solar vector, solar coordinates & sun angles in Microprocessor, PLC,

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Arduino, PIC and PC-based
sun tracking devices or
dynamic sun following
hardware, práctico solar
rastreo rastreamento,
inseguimento del sole,
motorizzato inseguimento

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solare

From Modeling to
Presentation for
Architecture, Landscape
Architecture, and Interior
Design
Architecture Portfolio

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Blank

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange

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and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues

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associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major

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construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful

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and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer

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materials and require less time, labor, and capital resources.

The 2nd edition of Chopra's Google SketchUp provides key pedagogical elements, which help prepare readers for the workforce. The content provides real-world and applied material including better PowerPoint presentations and how-

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to animations. Additional features include updated content to reflect software upgrades and market use; new pedagogy elements and interior design; and more robust resources that will be appropriate for different users of Google Sketch. The book also addresses the similarities between the adapted title, Google

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SketchUp 8 for Dummies, and Google SketchUp 2. This includes a title that contains the core content and basic software how-to from For Dummies; revised TOC to reflect the course; and new material developed/written by writer and academic advisors/reviewers. This edition goes beyond the basic software use

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to teach on portions of SketchUp.
Create Stunning Renders using V-Ray in 3ds Max: Guiding the Next Generation of 3D Renderers is a step-by-step guide on how to create realistic renderings using V-Ray in 3ds Max. The potentials of V-Ray are detailed using a bedroom scene as an example. The book introduces the 3ds

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Max interface and the basic commands, allowing readers to familiarize themselves with the work environment from the very beginning. This book is intended for architects, interior designers, and anyone else wanting to create photorealistic renderings using V-Ray in 3ds Max. The reader does not need experience to follow

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this book, but any prior knowledge of working in 3ds Max will help the reader jump right in. Margarita Nikita is the co-founder of High Q Renders LLC, an award-winning creative company based in San Francisco, CA, with offices in Greece. Nikita has published several design books on 2D and 3D graphic design, some of

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which are used in university courses, actively contributing to the formation of the new generation of 3D modelers in her native country, Greece. She shares her knowledge, advice, and tips and tricks on her YouTube channel, Margarita Nikita. More of her work is available at her Instagram account, @margarita.nikita.

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Free to download eBook on Practical Solar Tracking Design, Solar Tracking, Sun Tracking, Sun Tracker, Solar Tracker, Follow Sun, Sun Position calculation (Azimuth, Elevation, Zenith), Sun following, Sunrise, Sunset, Moon-phase, Moonrise, Moonset calculators. In harnessing power from the sun through a

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solar tracker or solar tracking system, renewable energy system developers require automatic solar tracking software and solar position algorithms. 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

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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. Eco Friendly and Environmentally Sustainable Micro Combined Solar Heat and Power (m-CHP, m-CCHP, m-CHCP)

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with Microgrid Storage and Layered Smartgrid Control towards Supplying Off-Grid Rural Villages in developing BRICS countries such as Africa, India, China and Brazil. Off-grid rural villages and isolated islands areas require mCHP and trigeneration solar power plants and associated isolated smart microgrid

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solutions to serve the community energy needs. This article describes the development progress for such a system, also referred to as solar polygeneration. The system includes a sun tracker mechanism wherein a parabolic dish or lenses are guided by a light sensitive mechanic in a way that the solar

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receiver is always at right angle to the solar radiation. Solar thermal energy is then either converted into electrical energy through a free piston Stirling, or stored in a thermal storage container. The project includes the thermodynamic modeling of the plant in Matlab Simulink as well as the development of an intelligent control

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approach that includes smart microgrid distribution and optimization. The book includes aspects in the simulation and optimization of stand-alone hybrid renewable energy systems and co-generation in isolated or islanded microgrids. It focusses on the stepwise development of a hybrid solar driven

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micro combined cooling heating and power (mCCHP) compact trigeneration polygeneration and thermal energy storage (TES) system with intelligent weather prediction, weak-ahead scheduling (time horizon), and look-ahead dispatch on integrated smart microgrid distribution principles. The solar harvesting and solar

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thermodynamic system includes an automatic sun tracking platform based on a PLC controlled mechatronic sun tracking system that follows the sun progressing across the sky. An intelligent energy management and adaptive learning control optimization approach is proposed for autonomous off-grid remote power

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applications, both for thermodynamic optimization and smart micro-grid optimization for distributed energy resources (DER). The correct resolution of this load-following multi objective optimization problem is a complex task because of the high number and multi-dimensional variables, the cross-

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correlation and interdependency between the energy streams as well as the non-linearity in the performance of some of the system components. Exergy-based control approaches for smartgrid topologies are considered in terms of the intelligence behind the safe and reliable operation of a microgrid in an automated system that can

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manage energy flow in electrical as well as thermal energy systems. The standalone micro-grid solution would be suitable for a rural village, intelligent building, district energy system, campus power, shopping mall centre, isolated network, eco estate or remote island application setting where self-generation and decentralized energy

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system concepts play a role. Discrete digital simulation models for the thermodynamic and active demand side management systems with digital smartgrid control unit to optimize the system energy management is currently under development. Parametric simulation models for this trigeneration system

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(polygeneration, poligeneration, quadgeneration) are developed on the Matlab Simulink and TrnSys platforms. In terms of model predictive coding strategies, the automation controller will perform multi-objective cost optimization for energy management on a microgrid level by managing the generation and

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storage of electrical, heat and cooling energies in layers. Each layer has its own set of smart microgrid priorities associated with user demand side cycle predictions. Mixed Integer Linear Programming and Neural network algorithms are being modeled to perform Multi Objective Control optimization as potential

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optimization and adaptive learning techniques.

Google SketchUp Workshop

SketchUp to LayOut

3D Visualizing, Designing, and Space Planning

Create Stunning Renders Using V-Ray in 3ds Max

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V-Ray 5 for 3ds Max 2020

Modeling Buildings, Visualizing Design,
and Creating Construction Documents
with SketchUp Pro and LayOut

*A guide to using Google
SketchUp for creating
three-dimensional*

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models, covers such topics as creating custom templates, importing CAD files, creating components, mastering scenes, and exporting graphics.

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*The site designer's
guide to SketchUp's
powerful modeling
capabilities SketchUp
for Site Design is the
definitive guide to
SketchUp for landscape*

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*architects and other
site design
professionals. Step-by-
step tutorials walk you
through basic to
advanced processes, with
expert guidance toward*

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*best practices,
customization,
organization, and
presentation. This new
second edition has been
revised to align with
the latest software*

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updates, with detailed instruction on using the newest terrain modeling tools and the newly available extensions and plug-ins. All graphics have been updated to

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*reflect the current
SketchUp interface and
menus, and the third
part of the book
includes all-new content
featuring the use of new
grade and terrain*

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extensions. Developed around the needs of intermediate professional users and their workflows, this book provides practical all-around coaching on

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*using SketchUp
specifically for
modeling site plans.
SketchUp was designed
for usability, with the
needs of the architect,
industrial designer, and*

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engineers at center stage. This book shows you how the software's powerful terrain and grade functions make it an ideal tool for site designers, and how to

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*seamlessly integrate it
into your workflow for
more efficient design
and comprehensive
planning. Master the
SketchUp basics,
navigation, components,*

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*and scripts Turn 2D
sketches into 3D models
with volume, color, and
material Create detailed
site plans, custom
furnishings, gradings,
and architecture Learn*

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*sandbox tools,
organization strategies,
and model presentation
tips SketchUp has
undergone major changes
since the publication of
this guide's first*

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edition, with its sale to Trimble Navigation bringing about a number of revisions and the availability of more immediately useful features. SketchUp for

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Site Design shows you how to harness the power of this newly expanded feature set to smooth and optimize the site design workflow.

Automatic Solar Tracking

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Sun Tracking : This book details Automatic Solar-Tracking, Sun-Tracking-Systems, Solar-Trackers and Sun Tracker Systems. An intelligent automatic solar tracker is a

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*device that orients a
payload toward the sun.
Such programmable
computer based solar
tracking device includes
principles of solar
tracking, solar tracking*

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*systems, as well as
microcontroller,
microprocessor and/or PC
based solar tracking
control to orientate
solar reflectors, solar
lenses, photovoltaic*

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panels or other optical configurations towards the sun. Motorized space frames and kinematic systems ensure motion dynamics and employ drive technology and

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*gearing principles to
steer optical
configurations such as
mangin, parabolic,
conic, or cassegrain
solar energy collectors
to face the sun and*

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*follow the sun movement
contour continuously
(seguimiento solar y
automatización,
automatización seguidor
solar, tracking solar e
automação, automação*

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*seguidor solar,
inseguimento solare,
inseguitore solare,
energia termica, sole
seguito, posizionatore
motorizzato) In
harnessing power from*

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*the sun through a solar
tracker or practical
solar tracking system,
renewable energy control
automation systems
require automatic solar
tracking software and*

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*solar position
algorithms to accomplish
dynamic motion control
with control automation
architecture, circuit
boards and hardware. On-
axis sun tracking system*

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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

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*sun's passage through
the sky is traced with
high precision in
automated solar tracker
applications, right
through summer solstice,
solar equinox and winter*

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*solstice. A high
precision sun position
calculator or sun
position algorithm is
this an important step
in the design and
construction of an*

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*automatic solar tracking
system. The content of
the book is also
applicable to
communication antenna
satellite tracking and
moon tracking algorithm*

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*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*

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*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*

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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

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*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*

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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.

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Using solar equations in an electronic circuit for automatic solar tracking is quite simple, even if you are a novice, but mathematical solar

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equations are over complicated by academic experts and professors in text-books, journal articles and internet websites. In terms of solar hobbies, scholars,

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*students and Hobbyist's
looking at solar
tracking electronics or
PC programs for solar
tracking are usually
overcome by the sheer
volume of scientific*

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material and internet resources, which leaves many developers in frustration when search for simple experimental solar tracking source-code for their on-axis

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*sun-tracking systems.
This booklet will
simplify the search for
the mystical sun
tracking formulas for
your sun tracker
innovation and help you*

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*develop your own
autonomous solar
tracking controller. By
directing the solar
collector directly into
the sun, a solar
harvesting means or*

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*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*

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*the calculation of sun's
position in the sky.*

*Automatic sun tracking
system software includes
algorithms for solar
altitude azimuth angle
calculations required in*

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*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*

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*solar tracking by
determining the solar
altitude-azimuth
coordinates for the sun
trajectory in altitude-
azimuth tracking at the
tracker location, using*

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*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*

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*with vision based sun
following image
processing software can
also be used to
determine the position
of the sun optically.
Such optical feedback*

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*devices are often used
in solar panel tracking
systems and dish
tracking systems.*

*Dynamic sun tracing is
also used in solar
surveying, DNI analyser*

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*and sun surveying
systems that build solar
infographics maps with
solar radiance,
irradiance and DNI
models for GIS
(geographical*

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*information system). In
this way geospatial
methods on
solar/environment
interaction makes use
use of geospatial
technologies (GIS,*

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*Remote Sensing, and
Cartography). Climatic
data and weather station
or weather center data,
as well as queries from
sky servers and solar
resource database*

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*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*

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or solarimeter is normally used in addition to measure direct and indirect, scattered, dispersed, reflective radiation for a particular

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*geographical location.
Sunlight analysis is
important in flash
photography where
photographic lighting
are important for
photographers. GIS*

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*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*

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*perform weather
modelling. Such systems
often employ a computer
operated telescope type
mechanism with ray
tracing program software
as a solar navigator or*

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*sun tracer that
determines the solar
position and intensity.
The purpose of this
booklet is to assist
developers to track and
trace suitable source-*

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code and solar tracking algorithms for their application, whether a hobbyist, scientist, technician or engineer. Many open-source sun following and tracking

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algorithms and source-code for solar tracking programs and modules are freely available to download on the internet today. Certain proprietary solar

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tracker kits and solar tracking controllers include a software development kit SDK for its application programming interface API attributes (Pebble).

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Widget libraries, widget toolkits, GUI toolkit and UX libraries with graphical control elements are also available to construct the graphical user

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interface (GUI) for your solar tracking or solar power monitoring program. The solar library used by solar position calculators, solar simulation

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*software and solar
contour calculators
include machine program
code for the solar
hardware controller
which are software
programmed into Micro-*

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*controllers,
Programmable Logic
Controllers PLC,
programmable gate
arrays, Arduino
processor or PIC
processor. PC based*

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*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*

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Matlab, Excel. Some books and internet webpages use other terms, such as: sun angle calculator, sun position calculator or solar angle calculator.

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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

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simply referenced from vertical plane, the mirror of the elevation angle measured from the horizontal or ground plane level). Similar software code is also

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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

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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

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*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*

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*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,*

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*GBasic, KBasic, SIMPL
language, Squirrel,
Solaris, Assembly
language on operating
systems such as MS
Windows, Apple Mac, DOS
or Linux OS. Software*

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*algorithms predicting
position of the sun in
the sky are commonly
available as graphical
programming platforms
such as Matlab
(Mathworks), Simulink*

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*models, Java applets,
TRNSYS simulations,
Scada system apps,
Labview module, Beckhoff
TwinCAT (Visual Studio),
Siemens SPA, mobile and
iphone apps, Android or*

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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

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*Siemens, HP, Panasonic,
ABB, Allan Bradley,
OMRON, SEW, Festo,
Beckhoff, Rockwell,
Schneider, Endress
Hauser, Fudji electric.
Honeywell, Fuchs,*

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*Yokonawa, or Muthibishi
platforms. Sun path
projection software are
also available for a
range of modular IPC
embedded PC
motherboards, Industrial*

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*PC, PLC (Programmable
Logic Controller) and
PAC (Programmable
Automation Controller)
such as the Siemens
S7-1200 or Siemens Logo,
Beckhoff IPC or CX*

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*series, OMRON PLC, Ercam
PLC, AC500plc ABB,
National Instruments NI
PXI or NI cRIO, PIC
processor, Intel
8051/8085, IBM (Cell,
Power, Brain or*

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*Truenorth series), FPGA
(Xilinx Altera Nios),
Intel, Xeon, Atmel
megaAVR, MPU, Maple,
Teensy, MSP, XMOS, Xbee,
ARM, Raspberry Pi,
Eagle, Arduino or*

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*Arduino AtMega
microcontroller, with
servo motor, stepper
motor, direct current DC
pulse width modulation
PWM (current driver) or
alternating current AC*

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*SPS or IPC variable
frequency drives VFD
motor drives (also
termed adjustable-
frequency drive,
variable-speed drive, AC
drive, micro drive or*

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*inverter drive) for
electrical, mechatronic,
pneumatic, or hydraulic
solar tracking
actuators. The above
motion control and robot
control systems include*

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*analogue or digital
interfacing ports on the
processors to allow for
tracker angle
orientation feedback
control through one or a
combination of angle*

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*sensor or angle encoder,
shaft encoder, precision
encoder, optical
encoder, magnetic
encoder, direction
encoder, rotational
encoder, chip encoder,*

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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-,

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*inclination angle-,
pitch angle-, or
vertical angle-, zenith
angle- sensor or
inclinometer. Similarly
the tracker's azimuth
axis angle be measured*

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*with a azimuth angle-,
horizontal angle-, or
roll angle- sensor. Chip
integrated accelerometer
magnetometer gyroscope
type angle sensors can
also be used to*

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*calculate displacement.
Other options include
the use of thermal
imaging systems such as
a Fluke thermal imager,
or robotic or vision
based solar tracker*

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systems that employ face tracking, head tracking, hand tracking, eye tracking and car tracking principles in solar tracking. With unattended decentralised

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*rural, island, isolated,
or autonomous off-grid
power installations,
remote control,
monitoring, data
acquisition, digital
datalogging and online*

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*measurement and
verification equipment
becomes crucial. It
assists the operator
with supervisory control
to monitor the
efficiency of remote*

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*renewable energy
resources and systems
and provide valuable web-
based feedback in terms
of CO2 and clean
development mechanism
(CDM) reporting. A power*

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*quality analyser for
diagnostics through
internet, WiFi and
cellular mobile links is
most valuable in
frontline
troubleshooting and*

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*predictive maintenance,
where quick diagnostic
analysis is required to
detect and prevent power
quality issues. Solar
tracker applications
cover a wide spectrum of*

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*solar applications and
solar assisted
application, including
concentrated solar power
generation, solar
desalination, solar
water purification,*

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*solar steam generation,
solar electricity
generation, solar
industrial process heat,
solar thermal heat
storage, solar food
dryers, solar water*

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*pumping, hydrogen
production from methane
or producing hydrogen
and oxygen from water
(HHO) through
electrolysis. Many
patented or non-patented*

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*solar apparatus include
tracking in solar
apparatus for solar
electric generator,
solar desalinator, solar
steam engine, solar ice
maker, solar water*

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*purifier, solar cooling,
solar refrigeration, USB
solar charger, solar
phone charging, portable
solar charging tracker,
solar coffee brewing,
solar cooking or solar*

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*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*

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*your solar powered
appliance, solar
generator, solar tracker
robot, solar freezer,
solar cooker, solar
drier, solar pump, solar
freezer, or solar dryer*

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project. Whether your solar electronic circuit diagram include a simplified solar controller design in a solar electricity project, solar power

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*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*

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*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*

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*accelerate the
development of your
solar tracking
innovation. Lately,
solar polygeneration,
solar trigeneration
(solar triple*

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*generation), and solar
quad generation (adding
delivery of steam,
liquid/gaseous fuel, or
capture food-grade
CO₂) systems have
need for automatic solar*

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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

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*heat and are suitable
for compact packaged
micro solar powerplants
that could be
manufactured and
transported in kit-form
and operate on a plug-*

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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,

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*heating and power (CCHP,
CHPC, mCCHP, or mCHPC)
systems used in
distributed power
generation. These
systems are often
combined in concentrated*

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*solar CSP and CPV smart
microgrid configurations
for off-grid rural,
island or isolated
microgrid, minigrid and
distributed power
renewable energy*

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systems. Solar tracking algorithms are also used in modelling of trigeneration systems using Matlab Simulink (Modelica or TRNSYS) platform as well as in

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*automation and control
of renewable energy
systems through
intelligent parsing,
multi-objective,
adaptive learning
control and control*

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*optimization strategies.
Solar tracking
algorithms also find
application in
developing solar models
for country or location
specific solar studies,*

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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

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*DNI, solar irradiance
and atmospheric
information and models
can thus be integrated
into a solar map, solar
atlas or geographical
information systems*

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(GIS). Such models allows for defining local parameters for specific regions that may be valuable in terms of the evaluation of different solar in

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*photovoltaic of CSP
systems on simulation
and synthesis platforms
such as Matlab and
Simulink or in linear or
multi-objective
optimization algorithm*

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*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*

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algorithm to position a solar dish, solar panel array, heliostat array, PV panel, solar antenna or infrared solar nantenna. A self-tracking solar

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concentrator performs automatic solar tracking by computing the solar vector. Solar position algorithms (TwinCAT, SPA, or PSA Algorithms) use an astronomical

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*algorithm to calculate
the position of the sun.
It uses astronomical
software algorithms and
equations for solar
tracking in the
calculation of sun's*

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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

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*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

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*photodiodes, light-
dependant-resistors
(LDR) or photoresistors
are used as optical
accuracy feedback
devices. Lately we also
included a section in*

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*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*

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applications. In order to harvest free energy from the sun, some automatic solar positioning systems use an optical means to direct the solar

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tracking device. These solar tracking strategies use optical tracking techniques, such as a sun sensor means, to direct sun rays onto a silicon or

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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

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*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,*

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*object tracking software
performs multi object
tracking or moving
object tracking methods.
In an solar object
tracking technique,
image processing*

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*software performs
mathematical processing
to box the outline of
the apparent solar disc
or sun blob within the
captured image frame,
while sun-localization*

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is performed with an edge detection algorithm to determine the solar vector coordinates. An automated positioning system help maximize the yields of solar power

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plants through solar tracking control to harness sun's energy. In such renewable energy systems, the solar panel positioning system uses a sun tracking

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*techniques and a solar
angle calculator in
positioning PV panels in
photovoltaic systems and
concentrated
photovoltaic CPV
systems. Automatic on-*

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*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*

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system in a photovoltaic panel tracker increase energy yield and ensures increased power output, even in a single axis solar tracking configuration. Other

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*applications such as
robotic solar tracker or
robotic solar tracking
system uses robotica
with artificial
intelligence in the
control optimization of*

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*energy yield in solar
harvesting through a
robotic tracking system.
Automatic positioning
systems in solar
tracking designs are
also used in other free*

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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

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*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*

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can be a parabolic mirror, parabolic reflector, Fresnel lens or mirror array/matrix. A parabolic dish or reflector is dynamically steered using a

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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

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dish system optically focusses the sun's energy on the focal point of a parabolic dish or solar concentrating means. A Stirling engine, solar

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*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*

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*concentrator. The dish
Stirling engine
configuration is
referred to as a dish
Stirling system or
Stirling power
generation system.*

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Hybrid solar power systems (used in combination with biogas, biofuel, petrol, ethanol, diesel, natural gas or PNG) use a combination of power

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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

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*energy stored in
batteries, phase change
material, thermal heat
storage, and in
cogeneration form
converted to the
required power using*

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*thermodynamic cycles
(organic Rankin, Brayton
cycle, micro turbine,
Stirling) with an
inverter and charge
controller.*

SHOPPING is arguably the

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*last remaining form of
public activity. Through
a battery of
increasingly predatory
forms, shopping has
infiltrated, colonized,
and even replaced,*

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*almost every aspect of
urban life. Town
centers, suburbs,
streets, and now
airports, train
stations, museums,
hospitals, schools, the*

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Internet, and the military are shaped by the mechanisms and spaces of shopping. The voracity by which shopping pursues the public has, in effect,

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*made it one of the
principal-if only-modes
by which we experience
the city. The Harvard
Design School Guide to
Shopping explores the
spaces, people,*

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*techniques, ideologies,
and inventions by which
shopping has so
dramatically refashioned
the city. Perhaps the
beginning of the twenty-
first century will be*

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remembered as the point where the urban could no longer be understood without shopping. The PROJECT ON THE CITY, formerly known as "The Project for What Used to

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be the City," is an ongoing research effort that examines the effects of modernization on the urban condition. Each year the Project on the City investigates a

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*specific urban region or
a general urban
condition undergoing
virulent change. It
tries to capture and
decipher ongoing
mutations in order to*

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*develop a new conceptual
framework and vocabulary
for phenomena that can
no longer be described
within the traditional
categories of
architecture, landscape,*

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and urban planning. The first project, Great Leap Forward, focuses on the new forms and speeds of urbanization in the Pearl River Delta, China. The second

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project investigates the impact of shopping on the city. The third project explores the urban condition of Lagos, Nigeria. The fourth project treats

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the invention and expansion of the "systematic" Roman city as an early version of modernization and a prototype for the current process of

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globalization.

*Insert Complicated Title
Here*

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A Guide to Building

Information Modeling for

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*Owners, Designers,
Engineers, Contractors,
and Facility Managers
Lumion 3D Best Practices
Google SketchUp and
SketchUp Pro 7 Bible
Introduction to Google*

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SketchUp