

Pikon Telescope 9 Steps With Pictures

Instructables Com

The Best of Instructables Nixie Tube Projects STEM Literacies in Makerspaces The Best of Instructables Volume I 3D Printing in Podiatric Medicine Recent Advances in Materials and Modern Manufacturing Full STEAM Ahead Sun Tracker, Automatic Solar- Tracking, Sun-Tracking Systems, Solar Trackers and Automatic Sun Tracker Systems ☀☀☀☀☀ Солнечная слежения Holography Projects for the Evil Genius EDN New Scientist The Crafty Kids Guide to DIY Electronics: 20 Fun Projects for Makers, Crafters, and Everyone in Between The Internet of Things: Do-It-Yourself at Home Projects for Arduino, Raspberry Pi and BeagleBone Black Access 3D Printing with Autodesk 123D, Tinkercad, and MakerBot The Best of Instructables Volume I Nintendo Power Making Things Move DIY Mechanisms for Inventors, Hobbyists, and Artists Business Periodicals Index Improvised Medicine: Providing Care in Extreme Environments, 2nd edition The editors at Make magazine and Instructables. com Instructables.com Staff Eli Tucker-Raymond The editors at MAKE magazine and Instructables.com Kamalpreet Sandhu I. A. Palani Cherie P. Pandora Gerro Prinsloo Gavin D J Harper Helen Leigh Donald Norris Lydia Sloan Cline Editors at MAKE magazine and Instructables.com Dustyn Roberts Kenneth V. Iserson

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this work showcases how to articles from a diy project site and features instructions along with full color photographs throughout

providing an original framework for the study of makerspaces in a literacy context this book bridges the scholarship of literacy studies and stem and offers a window into the practices that makers learn and interact with tucker raymond and gravel define and illustrate five key stem literacies identifying organizing and integrating information creating and traversing representations communicating with others for help and feedback during making documenting processes and communicating finished products and demonstrate how these literacies intersect with making communities through careful observation and analysis of multiple case studies the authors highlight the impact of research and practice to support teaching and making in a variety of environments using a nuanced engaging framework they examine the necessary skills required to develop and foster makerspaces in formal and informal contexts for all students grounded in cutting edge research this volume paves the

way for future study on supporting making and literacies in stem

in just three years instructables com has become one of the hottest destinations for makers and diy enthusiasts of all stripes known as the world s biggest show tell makers from around the globe post how to articles on a staggering variety of topics from collecting rainwater for lawn care to hacking toy robots to extracting squid ink now with more than 10 000 articles the instructables staff and editors of make magazine with help from the instructables community have put together a collection of solid time and user tested technology and craft projects from the site the best of instructables volume 1 includes plenty of clear full color photographs complete step by step instructions as well as tips tricks and new build techniques you won t find anywhere else even material never seen before on instructables some of the more popular how to articles include the led throwie magnetized electronic graffiti that s become a phenomenon how to craft beautiful japanese bento box lunches innovative gaming hacks such as how to add led lights and custom molded buttons to a video game controller new twists on personal items such as the keyboard wallet the electric umbrella and stuffed animal headphones while the book focuses on technology it also includes such projects as creating cool furniture from cheap components ways of making your own toys and killer sci fi and fantasy costumes and props anything but a reference book the best of instructables volume i embodies the inspirational fun creativity and sense of community that has attracted more than 200 000 registered members in just three years many of the articles include sidebars that show how other builders have realized or improved upon the same project making things is cool again everyone wants to be a creator not just a consumer this is the spirit of the new handy heyday fostered by instructables com make magazine and others and celebrated by this incredible book the best of instructables volume 1

3d printing in podiatric medicine compiles an interdisciplinary range of scientific literature laboratory developments industrial implications and futuristic avenues in this field the book provides recent developments and research breakthroughs in 3d printing in podiatric medicine such as functionalized feedstock systems smart products process characteristics modeling and optimization of printed systems and products and industrial applications it covers best practices for 3d printing methods to capture document and validate challenges at the early stage of the design process the book s content then goes into mitigating design strategies to address these challenges without compromising the cost safety and quality of the device this book supports new and emerging specializations and provides a comprehensive collection of technical notes research designs design methods and processes and case studies includes coverage of the biomechanical behavior of feet injuries and injury prevention using 3d printed customized orthosis uses an amalgamation of cad cam reverse engineering and artificial intelligence with 3d printing in podiatric medicine investigates plantar pressure using gait measurement technologies

this book presents the select proceedings of the fourth international conference on advanced materials and modern manufacturing icammm 2021 it covers broad areas such as advanced mechanical engineering material science and manufacturing process various topics discussed in this book include green manufacturing green materials industry 4 0 additive manufacturing precision engineering sustainability manufacturing operations management and so on given its contents the book will be useful for students researchers engineers and professionals working in the area of mechanical engineering and its allied fields

this book is a toolkit for youth and young adult librarians school and public who wish to incorporate science technology engineering art and math steam into their programs and collections but aren t sure where to begin most educators are well aware of the reasons for emphasizing steam topics that fall within the broad headings of science technology

engineering arts and mathematics in the curriculum regardless of grade level but how do librarians who work with tweens in middle school high school and public libraries fit into the picture and play their roles to underscore their relevance in making steam initiatives successful this book answers those key questions providing program guidelines and resources for each of the steam areas readers will learn how to collaborate in steam efforts by providing information on resources activities standards conferences museums programs and professional organizations emphasis is placed on encouraging girls and minorities to take part in and get excited about steam in addition the book examines how makerspaces can enhance this initiative how to connect your programs to educational standards where to find funding how to effectively promote your resources and programs including how school and public librarians can collaborate to maximize their efforts how to find and provide professional development and how to evaluate your program to make further improvements and boost effectiveness whether you are on the cusp of launching a steam initiative or looking for ways to grow and enhance your program this book will be an invaluable resource

this book details automatic solar tracking sun tracking systems solar trackers and sun tracker systems an intelligent automatic solar tracker is a device that orients a payload toward the sun such programmable computer based solar tracking device includes principles of solar tracking solar tracking systems as well as microcontroller microprocessor and or pc based solar tracking control to orientate solar reflectors solar lenses photovoltaic panels or other optical configurations towards the sun motorized space frames and kinematic systems ensure motion dynamics and employ drive technology and gearing principles to steer optical configurations such as mangin parabolic conic or cassegrain solar energy collectors to face the sun and follow the sun movement contour continuously in harnessing power from the sun through a solar tracker or practical solar tracking system renewable energy control automation systems require automatic solar tracking software and solar position algorithms to accomplish dynamic motion control with control automation architecture circuit boards and hardware on axis sun tracking system such as the altitude azimuth dual axis or multi axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the sun s passage through the sky is traced with high precision in automated solar tracker applications right through summer solstice solar equinox and winter solstice a high precision sun position calculator or sun position algorithm is this an important step in the design and construction of an automatic solar tracking system from sun tracing software perspective the sonnet tracing the sun has a literal meaning within the context of sun track and trace this book explains that the sun s daily path across the sky is directed by relatively simple principles and if grasped understood then it is relatively easy to trace the sun with sun following software sun position computer software for tracing the sun are available as open source code sources that is listed in this book ironically there was even a system called sun chaser said to have been a solar positioner system known for chasing the sun throughout the day using solar equations in an electronic circuit for automatic solar tracking is quite simple even if you are a novice but mathematical solar equations are over complicated by academic experts and professors in text books journal articles and internet websites in terms of solar hobbies scholars students and hobbyist s looking at solar tracking electronics or pc programs for solar tracking are usually overcome by the sheer volume of scientific material and internet resources which leaves many developers in frustration when search for simple experimental solar tracking source code for their on axis sun tracking systems this booklet will simplify the search for the mystical sun tracking formulas for your sun tracker innovation and help you develop your own autonomous solar tracking controller by directing the solar collector directly into the sun a solar harvesting means or device can harness sunlight or thermal heat this is achieved with the help of sun angle formulas solar angle formulas or solar tracking procedures for the calculation of sun s position in the sky automatic sun tracking system software includes algorithms for solar altitude azimuth angle calculations required in following the sun across the sky in using the longitude latitude gps coordinates of

the solar tracker location these sun tracking software tools supports precision solar tracking by determining the solar altitude azimuth coordinates for the sun trajectory in altitude azimuth tracking at the tracker location using certain sun angle formulas in sun vector calculations instead of follow the sun software a sun tracking sensor such as a sun sensor or webcam or video camera with vision based sun following image processing software can also be used to determine the position of the sun optically such optical feedback devices are often used in solar panel tracking systems and dish tracking systems dynamic sun tracing is also used in solar surveying dni analyser and sun surveying systems that build solar infographics maps with solar radiance irradiance and dni models for gis geographical information system in this way geospatial methods on solar environment interaction makes use use of geospatial technologies gis remote sensing and cartography climatic data and weather station or weather center data as well as queries from sky servers and solar resource database systems i e on db2 sybase oracle sql mysql may also be associated with solar gis maps in such solar resource modelling systems a pyranometer or solarimeter is normally used in addition to measure direct and indirect scattered dispersed reflective radiation for a particular geographical location sunlight analysis is important in flash photography where photographic lighting are important for photographers gis systems are used by architects who add sun shadow applets to study architectural shading or sun shadow analysis solar flux calculations optical modelling or to perform weather modelling such systems often employ a computer operated telescope type mechanism with ray tracing program software as a solar navigator or sun tracer that determines the solar position and intensity the purpose of this booklet is to assist developers to track and trace suitable source code and solar tracking algorithms for their application whether a hobbyist scientist technician or engineer many open source sun following and tracking algorithms and source code for solar tracking programs and modules are freely available to download on the internet today certain proprietary solar tracker kits and solar tracking controllers include a software development kit sdk for its application programming interface api attributes pebble widget libraries widget toolkits gui toolkit and ux libraries with graphical control elements are also available to construct the graphical user interface gui for your solar tracking or solar power monitoring program the solar library used by solar position calculators solar simulation software and solar contour calculators include machine program code for the solar hardware controller which are software programmed into micro controllers programmable logic controllers plc programmable gate arrays arduino processor or pic processor pc based solar tracking is also high in demand using c visual basic vb as well as ms windows linux and apple mac based operating systems for sun path tables on matlab excel some books and internet webpages use other terms such as sun angle calculator sun position calculator or solar angle calculator as said such software code calculate the solar azimuth angle solar altitude angle solar elevation angle or the solar zenith angle zenith solar angle is simply referenced from vertical plane the mirror of the elevation angle measured from the horizontal or ground plane level similar software code is also used in solar calculator apps or the solar power calculator apps for ios and android smartphone devices most of these smartphone solar mobile apps show the sun path and sun angles for any location and date over a 24 hour period some smartphones include augmented reality features in which you can physically see and look at the solar path through your cell phone camera or mobile phone camera at your phone s specific gps location in the computer programming and digital signal processing dsp environment free open source program code are available for vb net delphi python c c c php swift adm f flash basic qbasic gbasic kbasic simpl language squirrel solaris assembly language on operating systems such as ms windows apple mac dos or linux os software algorithms predicting position of the sun in the sky are commonly available as graphical programming platforms such as matlab mathworks simulink models java applets trnsys simulations scada system apps labview module bechhoff twincat visual studio siemens spa mobile and iphone apps android or ios tablet apps and so forth at the same time plc software code for a range of sun tracking automation technology can follow the profile of sun in sky for siemens hp panasonic abb allan bradley omron sew festo

beckhoff rockwell schneider endress hauser fudji electric honeywell fuchs yokonawa or muthibishi platforms sun path projection software are also available for a range of modular ipc embedded pc motherboards industrial pc plc programmable logic controller and pac programmable automation controller such as the siemens s7 1200 or siemens logo beckhoff ipc or cx series omron plc ercam plc ac500plc abb national instruments ni pxi or ni crio pic processor intel 8051 8085 ibm cell power brain or truenorth series fpga xilinx altera nios intel xeon atmel megaavr mpu maple teensy msp xmos xbee arm raspberry pi eagle arduino or arduino atmega microcontroller with servo motor stepper motor direct current dc pulse width modulation pwm current driver or alternating current ac sps or ipc variable frequency drives vfd motor drives also termed adjustable frequency drive variable speed drive ac drive micro drive or inverter drive for electrical mechatronic pneumatic or hydraulic solar tracking actuators the above motion control and robot control systems include analogue or digital interfacing ports on the processors to allow for tracker angle orientation feedback control through one or a combination of angle sensor or angle encoder shaft encoder precision encoder optical encoder magnetic encoder direction encoder rotational encoder chip encoder tilt sensor inclination sensor or pitch sensor note that the tracker s elevation or zenith axis angle may measured using an altitude angle declination angle inclination angle pitch angle or vertical angle zenith angle sensor or inclinometer similarly the tracker s azimuth axis angle be measured with a azimuth angle horizontal angle or roll angle sensor chip integrated accelerometer magnetometer gyroscope type angle sensors can also be used to calculate displacement other options include the use of thermal imaging systems such as a fluke thermal imager or robotic or vision based solar tracker systems that employ face tracking head tracking hand tracking eye tracking and car tracking principles in solar tracking with unattended decentralised rural island isolated or autonomous off grid power installations remote control monitoring data acquisition digital datalogging and online measurement and verification equipment becomes crucial it assists the operator with supervisory control to monitor the efficiency of remote renewable energy resources and systems and provide valuable web based feedback in terms of co2 and clean development mechanism cdm reporting a power quality analyser for diagnostics through internet wifi and cellular mobile links is most valuable in frontline troubleshooting and predictive maintenance where quick diagnostic analysis is required to detect and prevent power quality issues solar tracker applications cover a wide spectrum of solar energy and concentrated solar devices including solar power generation solar desalination solar water purification solar steam generation solar electricity generation solar industrial process heat solar thermal heat storage solar food dryers solar water pumping hydrogen production from methane or producing hydrogen and oxygen from water hho through electrolysis many patented or non patented solar apparatus include tracking in solar apparatus for solar electric generator solar desalinator solar steam engine solar ice maker solar water purifier solar cooling solar refrigeration usb solar charger solar phone charging portable solar charging tracker solar coffee brewing solar cooking or solar dying means your project may be the next breakthrough or patent but your invention is held back by frustration in search for the sun tracker you require for your solar powered appliance solar generator solar tracker robot solar freezer solar cooker solar drier solar pump solar freezer or solar dryer project whether your solar electronic circuit diagram include a simplified solar controller design in a solar electricity project solar power kit solar hobby kit solar steam generator solar hot water system solar ice maker solar desalinator hobbyist solar panels hobby robot or if you are developing professional or hobby electronics for a solar utility or micro scale solar powerplant for your own solar farm or solar farming this publication may help accelerate the development of your solar tracking innovation lately solar polygeneration solar trigeneration solar triple generation and solar quad generation adding delivery of steam liquid gaseous fuel or capture food grade co 2 systems have need for automatic solar tracking these systems are known for significant efficiency increases in energy yield as a result of the integration and re use of waste or residual heat and are suitable for compact packaged micro solar powerplants that could be manufactured and

transported in kit form and operate on a plug and play basis typical hybrid solar power systems include compact or packaged solar micro combined heat and power chp or mchp or solar micro combined cooling heating and power cchp chpc mcchp or mchpc systems used in distributed power generation these systems are often combined in concentrated solar csp and cpv smart microgrid configurations for off grid rural island or isolated microgrid minigrid and distributed power renewable energy systems solar tracking algorithms are also used in modelling of trigeneration systems using matlab simulink modelica or trnsys platform as well as in automation and control of renewable energy systems through intelligent parsing multi objective adaptive learning control and control optimization strategies solar tracking algorithms also find application in developing solar models for country or location specific solar studies for example in terms of measuring or analysis of the fluctuations of the solar radiation i e direct and diffuse radiation in a particular area solar dni solar irradiance and atmospheric information and models can thus be integrated into a solar map solar atlas or geographical information systems gis such models allows for defining local parameters for specific regions that may be valuable in terms of the evaluation of different solar in photovoltaic of csp systems on simulation and synthesis platforms such as matlab and simulink or in linear or multi objective optimization algorithm platforms such as compose energyplan or der cam a dual axis solar tracker and single axis solar tracker may use a sun tracker program or sun tracker algorithm to position a solar dish solar panel array heliostat array pv panel solar antenna or infrared solar nantenna a self tracking solar concentrator performs automatic solar tracking by computing the solar vector solar position algorithms twincat spa or psa algorithms use an astronomical algorithm to calculate the position of the sun it uses astronomical software algorithms and equations for solar tracking in the calculation of sun s position in the sky for each location on the earth at any time of day like an optical solar telescope the solar position algorithm pin points the solar reflector at the sun and locks onto the sun s position to track the sun across the sky as the sun progresses throughout the day optical sensors such as photodiodes light dependant resistors ldr or photoresistors are used as optical accuracy feedback devices lately we also included a section in the book with links to microprocessor code on how the pixart wii infrared camera in the wii remote or wiimote may be used in infrared solar tracking applications in order to harvest free energy from the sun some automatic solar positioning systems use an optical means to direct the solar tracking device these solar tracking strategies use optical tracking techniques such as a sun sensor means to direct sun rays onto a silicon or cmos substrate to determine the x and y coordinates of the sun s position in a solar mems sun sensor device incident sunlight enters the sun sensor through a small pin hole in a mask plate where light is exposed to a silicon substrate in a web camera or camera image processing sun tracking and sun following means object tracking software performs multi object tracking or moving object tracking methods in an solar object tracking technique image processing software performs mathematical processing to box the outline of the apparent solar disc or sun blob within the captured image frame while sun localization is performed with an edge detection algorithm to determine the solar vector coordinates an automated positioning system help maximize the yields of solar power plants through solar tracking control to harness sun s energy in such renewable energy systems the solar panel positioning system uses a sun tracking techniques and a solar angle calculator in positioning pv panels in photovoltaic systems and concentrated photovoltaic cpv systems automatic on axis solar tracking in a pv solar tracking system can be dual axis sun tracking or single axis sun solar tracking it is known that a motorized positioning system in a photovoltaic panel tracker increase energy yield and ensures increased power output even in a single axis solar tracking configuration other applications such as robotic solar tracker or robotic solar tracking system uses robotica with artificial intelligence in the control optimization of energy yield in solar harvesting through a robotic tracking system automatic positioning systems in solar tracking designs are also used in other free energy generators such as concentrated solar thermal power csp and dish stirling systems the sun tracking device in a solar collector in a solar concentrator

or solar collector such a performs on axis solar tracking a dual axis solar tracker assists to harness energy from the sun through an optical solar collector which can be a parabolic mirror parabolic reflector fresnel lens or mirror array matrix a parabolic dish or reflector is dynamically steered using a transmission system or solar tracking slew drive mean in steering the dish to face the sun the power dish actuator and actuation means in a parabolic dish system optically focusses the sun s energy on the focal point of a parabolic dish or solar concentrating means a stirling engine solar heat pipe thermosyphyn solar phase change material pcm receiver or a fibre optic sunlight receiver means is located at the focal point of the solar concentrator the dish stirling engine configuration is referred to as a dish stirling system or stirling power generation system hybrid solar power systems used in combination with biogas biofuel petrol ethanol diesel natural gas or png use a combination of power sources to harness and store solar energy in a storage medium any multitude of energy sources can be combined through the use of controllers and the energy stored in batteries phase change material thermal heat storage and in cogeneration form converted to the required power using thermodynamic cycles organic rankin brayton cycle micro turbine stirling with an inverter and charge controller book and literature review is ideal for sun and moon tracking in solar applications for sun rich countries such as the usa spain portugal mediterranean italy greece mexico portugal china india brazil chili argentina south america etc

В этой книге подробно Автоматическая solar tracking BC tracking systems solar трекары и BC tracker systems Интеллектуальный автоматический солнечной слежения является устройством которое ориентирует полезную нагрузку к солнцу Такое программируемый компьютер на основе солнечной устройство слежения включает принципы солнечной слежения солнечных систем слежения а также микроконтроллер микропроцессор и или ПК на базе управления солнечной отслеживания ориентироваться солнечных отражателей солнечные линзы фотоэлектрические панели или другие оптические конфигурации к ВС Моторизованные космические кадры и кинематические системы обеспечения динамики движения и использовать приводной техники и готовится принципы чтобы направить оптические конфигурации такие как Манжен параболических конических или Кассегрена солнечных коллекторов энергии чтобы лицом к солнцу и следовать за солнцем контур движения непрерывно В обуздывать силу от солнца через солнечный трекер или практической солнечной системы слежения системы возобновляемых контроля энергии автоматизации требуют автоматического солнечной отслеживания программного обеспечения и алгоритмов солнечные позиции для достижения динамического контроля движения с архитектуры автоматизации управления печатных плат и аппаратных средств На оси системы слежения ВС таких как высота азимут двойной оси или многоосевые солнечные системы трекер использовать алгоритм отслеживания солнце или трассировки лучей датчиков или программное обеспечение чтобы обеспечить прохождение солнца по небу прослеживается с высокой точностью в автоматизированных приложений Солнечная tracker прямо через летнего солнцестояния солнечного равноденствия и зимнего солнцестояния Высокая точность позиции ВС калькулятор или положение солнца алгоритм это важный шаг в проектировании и строительстве автоматической системой солнечной слежения

take your imagination to another dimension this wickedly inventive guide explores the art

and science of holography and shows you how to create your own intriguing holograms using inexpensive materials holography projects for the evil genius explains the tools and techniques you need to know to represent three dimensions on a flat two dimensional plane using easy to find components and equipment this do it yourself book presents a wide variety of holography projects including science fair ideas that are guaranteed to impress you ll find detailed guidelines and parameters as well as discussions of the theory behind the practice holography projects for the evil genius features step by step instructions and helpful illustrations for each project allows you to customize your projects includes details on the scientific principles behind the projects removes the frustration factor all required parts are listed along with sources enlightening coverage of the history of holography human vision basics practical optics how to bend and distort laser light to form a hologram holographic chemistry setting up your holography workshop working with lasers glass plates and film basic to advanced holographic setups advanced holographic chemical preparations computer generated holography electronic circuits for holographers

craft awesome diy electronics projects using fabric paper and creativity no prior experience necessary this fun tab guide provides an entertaining hands on introduction to electronics and making the book contains 20 diy projects that teach electronics and craft skills using inexpensive readily available materials you ll also find four fun interviews with awesome makers the author explains how to work with conductive thread sewable leds copper tape small motors simple sensors and more written by a dedicated hobbyist the crafty kid s guide to diy electronics 20 fun projects for makers crafters and everyone in between focuses on paper circuits soft circuits wearables and robots designed for children interested in exploring the book is also ideal for established hobbyists with senses of humor inside you ll discover how to get up and running with electronics and crafting build interactive paper projects that light up buzz vibrate and dance use cardboard and origami even create a pop up cityscape with lights make sewing projects that use conductive thread and electricity assemble a constellation night light and a grumpy monster with a tilt sensor add wearable technology to your gadgets make an led paper flower crown and a mood badge work with robotics and develop your own robot based projects construct an extremely effective robot alarm clock

build and program projects that tap into the internet of things iot using arduino raspberry pi and beaglebone black this innovative guide gets you started right away working with the most popular processing platforms wireless communication technologies the cloud and a variety of sensors you ll learn how to take advantage of the utility and versatility of the iot and connect devices and systems to the internet using sensors each project features a list of the tools and components how to explanations with photos and illustrations and complete programming code all projects can be modified and expanded so you can build on your skills the internet of things diy projects with arduino raspberry pi and beaglebone black covers the basics of java c python javascript and other programming languages used in the projects shows you how to use ibm s net beans ide and the eclipse ide explains how to set up small scale networks to connect the projects to the internet includes essential tips for setting up and using a mysql database the fun diy projects in the book include raspberry pi home temperature measurements raspberry pi surveillance webcams raspberry pi home weather station arduino garage door controller arduino irrigation controller arduino outdoor lighting controller beaglebone message panel beaglebone remote control sdr machine to machine demonstration project

master the art of 3d printing with step by step tutorials and diy projects are you ready to join the new industrial revolution 3d printing with autodesk 123d tinkercad and makerbot reveals how to turn your ideas into physical products that you can use or sell you ll learn how to operate powerful free software from autodesk and bring your creations to life with the makerbot a leading consumer printer or an online service bureau practical examples take

you through the design catch meshmixer tinkercad make and cnc utility apps and the makerbot desktop fun projects easy to follow instructions and clear screenshots progress from installing the software to printing the design videos and digital files accompany this hands on guide make your own creations with design and tinkercad download editable premade content generate construction documents with the layout feature create and edit a reality capture model with catch edit and mash up stl files with meshmixer navigate the makerbot desktop print the model on your own machine or with a service bureau

in just three years instructables com has become one of the hottest destinations for makers and diy enthusiasts of all stripes known as the world s biggest show tell makers from around the globe post how to articles on a staggering variety of topics from collecting rainwater for lawn care to hacking toy robots to extracting squid ink now with more than 10 000 articles the instructables staff and editors of make magazine with help from the instructables community have put together a collection of solid time and user tested technology and craft projects from the site the best of instructables volume 1 includes plenty of clear full color photographs complete step by step instructions as well as tips tricks and new build techniques you won t find anywhere else even material never seen before on instructables some of the more popular how to articles include the led throwie magnetized electronic graffiti that s become a phenomenon how to craft beautiful japanese bento box lunches innovative gaming hacks such as how to add led lights and custom molded buttons to a video game controller new twists on personal items such as the keyboard wallet the electric umbrella and stuffed animal headphones while the book focuses on technology it also includes such projects as creating cool furniture from cheap components ways of making your own toys and killer sci fi and fantasy costumes and props anything but a reference book the best of instructables volume i embodies the inspirational fun creativity and sense of community that has attracted more than 200 000 registered members in just three years many of the articles include sidebars that show how other builders have realized or improved upon the same project making things is cool again everyone wants to be a creator not just a consumer this is the spirit of the new handy heyday fostered by instructables com make magazine and others and celebrated by this incredible book the best of instructables volume 1

get your move on in making things move diy mechanisms for inventors hobbyists and artists you ll learn how to successfully build moving mechanisms through non technical explanations examples and do it yourself projects from kinetic art installations to creative toys to energy harvesting devices photographs illustrations screen shots and images of 3d models are included for each project this unique resource emphasizes using off the shelf components readily available materials and accessible fabrication techniques simple projects give you hands on practice applying the skills covered in each chapter and more complex projects at the end of the book incorporate topics from multiple chapters turn your imaginative ideas into reality with help from this practical inventive guide discover how to find and select materials fasten and join parts measure force friction and torque understand mechanical and electrical power work and energy create and control motion work with bearings couplers gears screws and springs combine simple machines for work and fun projects include rube goldberg breakfast machine mousetrap powered car diy motor with magnet wire motor direction and speed control designing and fabricating spur gears animated creations in paper an interactive rotating platform small vertical axis wind turbine sadbot the seasonally affected drawing robot make great stuff tab an imprint of mcgraw hill professional is a leading publisher of diy technology books for makers hackers and electronics hobbyists

deliver quality healthcare in the most challenging field conditions comprehensive yet compact practical and enduring improvised medicine providing care in extreme environments second edition is the one book to toss into your bag when going to practice

medicine in global disaster or other resource poor settings including theaters of war regions of civil unrest and economically deprived areas full of practical clinical pearls and field tested strategies this indispensable guide provides detailed instructions on how to work successfully outside of your comfort zone it demonstrates how to devise effective treatment solutions when the traditional tools medications equipment and staff are unavailable or when providing care outside your primary area of expertise in any crisis from power failures and computer crashes to floods tsunamis and earthquakes knowing how to deal with the unique challenges encountered saves lives and communities this reference gives you that knowledge and inspires innovative crisis resolution from reviews of the first edition dr iserson has given us a most remarkable book many readers may be familiar with david werner s lay healthworker book where there is no doctor this new volume could be titled where there is a doctor but no stuff drawing from his experience providing care in international wilderness and disaster settings he has compiled an impressive collection of bare bones equipment and work around strategies to provide the best possible care in resource poor settings while presenting many creative examples the purpose of the book is not to offer an exhaustive list of solutions to missing resource challenges but to inspire creativity in readers who may find themselves needing to improvise family medicine there is a lot of material here and if nothing else it may motivate more people to practice low tech medicine and be willing to go where health care is dependent more on caring than on cost i recommend this book to anyone who must practice in austere environments and it will be in my rucksack when i respond to the next disaster the journal of emergency medicine features simple to follow directions diagrams and illustrations describing practical techniques and improvised equipment necessary to provide quality care during crises contains improvisations in anesthesia and airway management dentistry gynecology obstetrics infectious disease laboratory diagnosis internal medicine otolaryngology pediatrics and malnutrition orthopedics psychiatry and surgery covers situational analysis and basic needs in a crisis specific triage diagnosis and stabilization efforts medical interventions for surgical and non surgical problems and debunks some commonly reported improvised techniques features public health measures basic disaster communication techniques post disaster forensics a model hospital disaster plan and innovative patient transport methods new to the second edition more concisely written more extensively illustrated and updated improvisations and references learn how to make an endotracheal tube in seconds perform digital oral and blind nasotracheal intubations make plaster bandages for splints casts give open drop ether ketamine drips and halothane use subcutaneous intraperitoneal rehydration transfusion make ors and standard nutrition formulas clean disinfect and sterilize equipment for reuse warm blood units in seconds inexpensively take view stereoscopic x rays with standard equipment quickly and easily stop postpartum hemorrhage fashion surgical equipment from common items build an evaporative refrigerator make esophageal and precordial stethoscopes quickly improvise a saline lock make ecg electrode defibrillator pads and ultrasound gel evacuate patients easily from high rise hospitals

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