

When a voltage is applied across a piezoelectric crystal, the crystal expands and then contracts again. By connecting the crystal to the sound output of a device where a normal speaker would usually go, a radio's output for example (see diagram below), then the device will supply a varying voltage and the crystal's expansion and contraction will produce sound waves.

Toggle navigation rimstar . Solar energy. The purpose of this page is to give some of the basic physics about where the energy comes from that is used in renewable energy systems. Rather than starting at the usual place, down here on Earth, this will take us further back to the ultimate source, the sun. Attempts will be made to keep the ...

rimstar ... sharing information that keeps the lights on. What's New Archive: August 23, 2009: DIY installation of commercial solar pool heating system in Seattle. August 20, 2009: Modifying commercial Wimshurst machine - added replacement screw information. August 16, 2009:

I'd previously made a laser communicator for transmitting to a solar cell but I'd been asked to also try transmitting to a photoresistor (also known as a photocell or LDR - Light-Dependent Resistor.) I came up with a circuit design that worked, and the resulting sound was much better than with the solar cell. A video of it in action is given below.

Toggle navigation rimstar . Crystal earphone/earpiece. Crystal earpieces, or earphones, consist of a piezoelectric crystal attached to a diaphragm (see diagram below.) The fluctuating voltage from the crystal radio's output is ...

What's New February 25, 2023 Added a downloadable files for making zoetrope animations and a downloadable template for making a pinhole camera from poster board. February 21, 2023 Added a downloadable template for making the corona motor v2. November 24, 2022 Added details about Izzy, an artificial intelligence robot I'm working on and my changes to the darknet neural ...

One basic design idea was to have a big enough big cylinder, the one containing the displacer, for the solar system to focus light onto. The other was to have a big metal plate as a heat sink at the top of that cylinder for cooling purposes, one that the ...

Toggle navigation rimstar . Hero's steam engine. Here's a very easy to make steam engine, Hero's steam engine. It's named after Hero of Alexandria who described it in a document in the 1st century AD. It consists of an unopened soda can with two tiny holes in either side and a little water inside. Heating the can heats some of the water to ...

An off-grid solar power system is one that gets most or all of its electricity from the sun using solar panels (photovoltaic panels) and none from a power utility such as a hydroelectric dam, nuclear, coal or natural gas fired plant, ... The grid, which the system is "off" of, refers to the complex network of power lines that connect the utilities to the numerous buildings that use the power.

Linear lenses versus spot lenses. It turned out that the fresnel lens which I got from a rear projection TV and used for my solar cooker produces a short line at the focal length about 2 to 3 inches long and about a half inch thick at its thickest.

Also, now introducing RSS support for rimstar ! Click the button above. August 26, 2010 Ontario's microFIT program now paying \$0.642/kWh for non-roof systems. August 15, 2010 DIY spiral hose type solar pool heater in Tuscany! August 14, 2010 More details about solar pool heating control and automation.

Toggle navigation rimstar . Science and Electronics Projects. What's New. October 28, 2024 : Added a new video about improvements to Izzy object selection and making Izzy more compact. February 25, 2023 : Added a downloadable files for making zoetrope animations and a downloadable template for making a pinhole camera from poster board.

Toggle navigation rimstar . DIY laser communicator. This is a relatively easy to make laser communicator which allows you to talk over a distance using a laser on one end and a solar cell on the other end, along with a few extra parts. The receiving end can instead be a photoresistor, photodiode or a number of other things but I use a solar ...

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This is different than my 30kV high voltage power supply that used a flyback transformer without built in diodes and a Cockcroft-Walton voltage multiplier or tripler that contained the diodes (see photos below.) However, the multiplier does allow that one to get to 30kV. On the other hand, this commercially made multipler is hard to find, as it the flyback without built in diodes.

rimstar is all about sharing projects and knowledge about them, whether that's how to make them or how they work or both. It started out in 1999 as a way to share what I'd done and to reach out for like-minded people and as you can ...

IMPORTANT: It's recommended that if you might have high power sparks then you should put around 250 kilohms of resistance with at least a 2 watt rating at the output to protect the power supply from the high current of the spark. A high power spark usually comes from a wide spark gap. I damaged transistor Q1 this way by forgetting to put this resistance.

I also used this Talkie library in my Arduino controlled skull for a Halloween project. That also included working a servo and the used of a proper microcontroller loop in the code. Follow the link for full details, including the code.

Toggle navigation rimstar . Sizing the solar array for you off-grid solar power system. Step 1. Work out your power needs: Step 2. Sizing battery bank: Step 3. Sizing solar array: Step 4. Wire sizing: NOTE: Clicking on any link in the body portion of this page will take you to a new window or tab so that you don't lose any information.

Using multiple reflector angles. Solar box oven cookers cannot always be tilted to face the sun if the sun is low in the sky. Doing so may cause the cooking pot to tip over, or if the pot is on a swivel base, it may already be at it's maximum swivel angle.

Toggle navigation rimstar . BB-8's dimensions. BB-8 Main: BB-8 (v1) Main: BB-8 (v2) Main: At this time the only dimension we're reasonably sure of is that the diameter of BB-8's ball in the movie is 506mm, which is 19.92" (inches). If you're dealing in inches then 20" will look fine. I've explained below how I got all the measurements so ...

Toggle navigation rimstar . Small Spark Gap Tesla Coil. For a long time I'd been asked to make a Tesla coil and show how to make it, and so I made the one below. It's a small one so that more people will have a chance of making one and it's a spark gap type of Tesla coil since that's also the easiest type to make. This one is designed and ...

Debe tomar Rimstar una vez al día durante los dos primeros meses de tratamiento. Trague los comprimidos enteros con un poco de agua. Rimstar debe tomarse al menos una hora antes de comer. Duración del tratamiento. Rimstar se suele administrar durante dos meses al principio del tratamiento de la tuberculosis.

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The Copenhagen solar cooker is a very clever, lightweight, portable and quick to set up solar cooker invented by Sharon Clausson. It is much like a car sunshade solar cooker in that to adjust it you set the cooking pot down flat and then adjust the reflectors around it. Unlike the car sunshade, the Copenhagen is suitable for all sun angles, meaning all times of the year and day.

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