

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 its 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 ...

The lights were three of the LEDs (shown below) which I bought on ebay here. Each LED is actually made of multiple tiny LEDs. If you watch the Gravity light - Making video below carefully at 2:44 you'll see that only some of those tiny LEDs actually light up, though as the power is increased they light up very brightly. But the price was low enough for experimenting like this.

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 ...

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 ...

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 multiplier is hard to find, as is the flyback without built in diodes.

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.

Method 2: Using a shadow at solar noon. Perhaps the simplest way to find true south is to wait until noon and then look at your shadows. The edges of the shadows of things that are perpendicular to the earth/standing straight up line up with true south/north.

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.

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where: heat_transferred is the amount of heat transferred, either lost or gained, through the material separating both sides (BTU / hour) ; surface_area is the surface area of the material separating the two areas that are at different temperatures, it's the material that the heat is being transferred through (Examples: wall, window) (ft 2),

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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 ...

This is a replication of something done by one of the members of the testatika Yahoogroup modifies two sectors of a Wimshurst machine to act as the capacitor(s) of an LC resonant circuit with a coil wrapped around the pulley shaft.

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 ...

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:

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