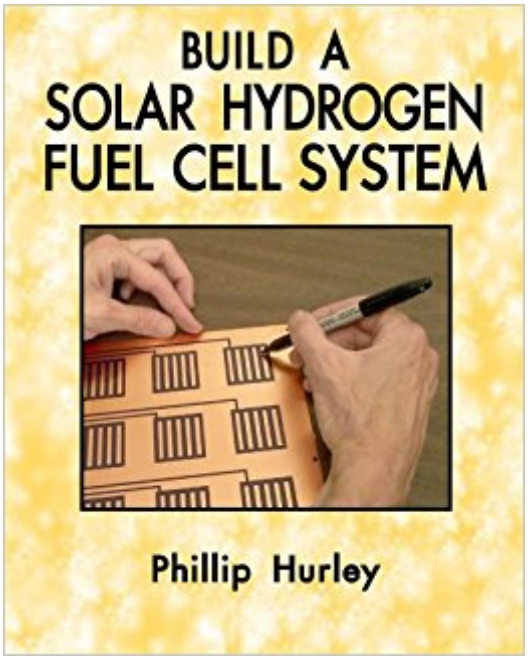
Build A Solar Hydrogen Fuel Cell System



Synopsis

Learn how to construct and operate the components of a solar hydrogen fuel cell system: the fuel cell stack, the electrolyzer to generate hydrogen fuel, simple hydrogen storage, and solar panels designed specifically to run electrolyzers for hydrogen production. Complete, clear, illustrated instructions to build all the major components make it easy for the non-engineer to understand and work with this important new technology. Featured are the author's innovative and practical designs for efficient solar powered hydrogen production including: ESPMs (Electrolyzer Specific Photovoltaic Modules) â " 40 watt solar panels designed specifically to run electrolyzers efficiently; a 40-80 watt electrolyzer for intermittant power from renewable energy sources such as solar and wind; and, a 6-12 watt planar hydrogen fuel cell stack to generate electricity. Any of these components can be ganged or racked, or scaled up in size for higher output. You'll also learn how to set up an entire gas processing system, and where to find parts and materials â " everything you need for an experimental stationary unit that will give you a solid base for building and operating systems for larger power needs. There are even schematics for adapting conventional solar panels (BSPMs â " Battery Specific Photovoltaic Modules) for efficient hydrogen production, and setting up hybrid (battery and fuel cell) PV systems.Build a Solar Hydrogen Fuel Cell System has over 135 photos and illustrations, as well as 5 templates for a planar fuel cell stack. *NOTE* If you have never constructed a fuel cell before, we recommend you first study Build Your Own Fuel Cells by the same author, before you attempt to build the planar fuel cell stack.

Book Information

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Customer Reviews

This is the definitive book that all should have in their personal library. Phillip Hurley takes you step by step to energy independence. No fluff here. Well written and thought out and well documented with illustrations and photos. All one needs to know is how operate a soldering iron. Low tech teaching method with high tech results. Want to slash those energy bills? Buy ALL of his books. Not one contains any disappointment.Ed Rivera

Very easy with step by step instructions with the proper tools.

Great! very comprehensive book!

Nice

I purchased this book to gain a better understand of fuel cell technology and this book (and author) do a great job. There’s a lot of details that don’t go too deep, which was exactly what I was seeking. I have zero plans on building my own cell, but I do understand how they work based on how the author laid out each chapter.

Excellent

Excellent!

Good

Build A Solar Hydrogen Fuel Cell System Solar Power: The Ultimate Guide to Solar Power Energy and Lower Bills: (Off Grid Solar Power Systems, Home Solar Power System) (Living Off Grid, Wind And Solar Power Systems) DIY: How to make solar cell panels easily with no experience!: Master Making Solar Panels Faster! (Master Solar Faster Book 1) Hydrogen and Fuel Cells (Innovative Technologies) Profiting from Clean Energy: A Complete Guide to Trading Green in Solar, Wind, Ethanol, Fuel Cell, Carbon Credit Industries, and More Uranus, Neptune, Pluto, and the Outer Solar System (The Solar System) Solar Hydrogen Generation: Transition Metal Oxides in Water Photoelectrolysis Solar Cooking: Different Types of Solar Cookers: The Pros and Cons of Different

Types of Solar Cookers and What Will Work Best For You Solar Electricity Handbook: 2017 Edition: A simple, practical guide to solar energy ? designing and installing solar photovoltaic systems. Solar Electricity Handbook - 2015 Edition: A simple, practical guide to solar energy - designing and installing solar PV systems. Solar Electricity Handbook - 2013 Edition: A Simple Practical Guide to Solar Energy - Designing and Installing Photovoltaic Solar Electric Systems Solar Electricity Handbook - 2014 Edition: A Simple Practical Guide to Solar Energy - Designing and Installing Photovoltaic Solar Electric Systems Solar Electricity Handbook - 2012 Edition: A Simple Practical Guide to Solar Energy - Designing and Installing Photovoltaic Solar Electric Systems International Fuel Gas Code 2006 (International Fuel Gas Code) US Army, Technical Manual, TM 9-4520-257-12&P, HEATER, SPACE, RADIANT, LARGE, (H-45), (TYPE I, SOLID FUEL), (NSN 4520-01-354-119, (TYPE II, LIQUID FUEL), (4520-01-329-3451) Off-Grid Living: How To Build Wind Turbine, Solar Panels And Micro Hydroelectric Generator To Power Up Your House: (Wind Power, Hydropower, Solar Energy, Power Generation) Solar PV Off-Grid Power: How to Build Solar PV Energy Systems for Stand Alone LED Lighting, Cameras, Electronics, Communication, and Remote Site Home Power Systems Solar PV Water Pumping: How to Build Solar PV Powered Water Pumping Systems for Deep Wells, Ponds, Creeks, Lakes, and Streams How To Build a Solar Wind Turbine: Solar Powered Wind Turbine Plans Mobile Solar Power Made Easy!: Mobile 12 volt off grid solar system design and installation. RV’s, Vans, Cars and boats! Do-it-yourself step by step instructions