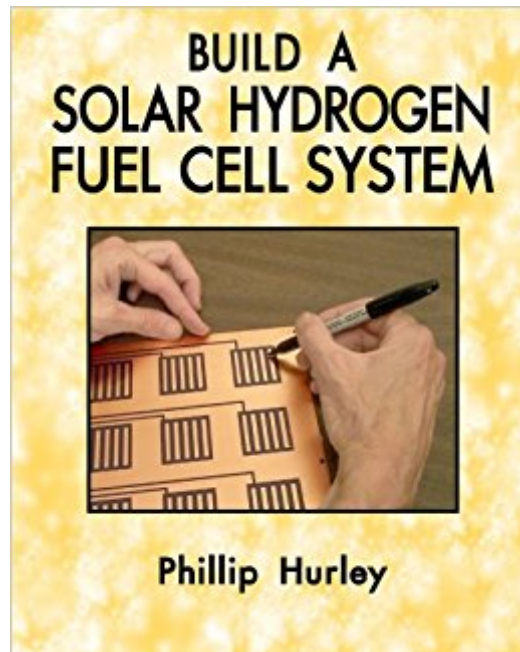




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Build A Solar Hydrogen Fuel Cell System



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) – 40 watt solar panels designed specifically to run electrolyzers efficiently; a 40-80 watt electrolyzer for intermittent 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 – 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 – 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

Paperback: 226 pages

Publisher: Good Idea Creative Services (November 22, 2013)

Language: English

ISBN-10: 0983784779

ISBN-13: 978-0983784777

Product Dimensions: 8 x 0.5 x 10 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars 14 customer reviews

Best Sellers Rank: #777,783 in Books (See Top 100 in Books) #62 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Solar #4232 in Books > Science & Math > Nature & Ecology > Conservation #9288 in Books > Science & Math > Physics

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

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