

Practical Hydrogen Systems: An Experimenters Guide

By Phillip Hurley

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The author of Build Your Own Fuel Cells, Build Your Own Solar Panel and Build a Solar Hydrogen Fuel Cell System shares the details of his high quality, self-pressurized stainless steel hydrogen generator, and offers valuable insight into components, subsystems and processes involved in the production of hydrogen.

Hurley's innovative small scale system is designed for ease of fabrication and a minimum of components - in versatile modular configurations that make experimenting and customizing easy. This hydrogen-generating system features automatic pressure control, and the book includes complete schematics for the electronic/electromechanical process controller, as well as over 230 other illustrations. 305 pages.

Topics covered include:

Electrolyzer construction and design

Hydride storage

Cylinder hydrogen

Hydrogen leak detection and detectors

Catalytic recombiners

Hydrogen processing systems

Filtration

Parts suppliers and resources for hydrogen system components

Fuel cell units

Hydrogen storage

Bubblers and scrubbing

Pressure vessels for hydrogen systems

Tubing and fittings for hydrogen systems

Electrolytes

Nitrogen purging for hydrogen systems

Hydrogen regulators

Material compatibility for hydrogen system components

Electronic and electromechanical process controllers for hydrogen systems

Meters and pressure gauges for hydrogen process measurement

Pressure switches and level switches for electrolyzers and hydrogen storage

Intrinsically safe systems for hydrogen production

Pressurized safety systems for hydrogen process control equipment

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