



# Photovoltaic Design and Installation For Dummies

By Ryan Mayfield

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## Photovoltaic Design and Installation For Dummies By Ryan Mayfield

### The fun and easy way to get a grip on photovoltaic design and installation

Designing and installing solar panel systems is a trend that continues to grow. With 'green collar' jobs on the rise and homeowners looking for earth-friendly ways to stretch their dollars and lesson their carbon imprint, understanding photovoltaic design and installation is on the rise.

*Photovoltaic Design & Installation For Dummies* gives you a comprehensive overview of the history, physics, design, installation, and operation of home-scale solar-panel systems. You'll also get an introduction to the foundational mathematic and electrical concepts you need to understand and work with photovoltaic systems.

- Covers all aspects of home-scale solar-power systems
- Viable resource for professionals, students, and technical laymen
- Can be used to study for the NABCEP exam

Whether you're a building professional looking to expand your business and skills to meet the growing demand for solar power installation or are seeking a career in this rapidly expanding field, *Photovoltaic Design & Installation For Dummies* has you covered!

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### Editorial Review

From the Back Cover

#### Get a grip on photovoltaic design and installation

Are you looking to secure a job in the exciting field of photo-voltaic design and installation? This hands-on, friendly guide covers the workings of residential and small commercial-sized photovoltaic systems and gives you the essentials you need to safely install a system from start to finish.

- Shed some light on PV systems — get the scoop on electricity basics and how the sun-earth relationship affects where a PV system will (or won't) work
- Dig into the nitty-gritty of components — understand the technologies used in all types of PV systems, from modules and batteries to charge controllers, inverters, and more
- Know that size matters — discover how to properly size a grid-direct system, a battery-based system, wiring, and safety devices
- Safety first — follow helpful guidance for staying safe anytime you work on a PV system, from general construction and battery safety to working on ladders and roofs
- Break ground — learn how to assemble mechanical parts and integrate electrical elements to put together your PV system

Open the book and find:

- Advice on figuring out which system type is right for you
- Plain-English explanations of electricity basics
- How to properly select a site for a PV system
- The lowdown on PV modules, batteries, and other system components
- Guidance for sizing the most common PV systems, as well as wiring and safety devices
- Pointers for permitting, commissioning, inspection, and maintenance

Learn to:

- Design and install photovoltaic systems
- Follow processes for permitting, commissioning, and inspection
- Grasp electrical concepts in plain English
- Expand your skill set for "green collar" jobs

About the Author

**Ryan Mayfield** is President of Renewable Energy Associates, a consulting firm providing design, support, and educational services for commercial photovoltaic systems. He is also Photovoltaic Systems Technical Editor for *SolarPro* magazine, where he also regularly contributes feature articles.

### Users Review

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**Patsy Hall:**

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