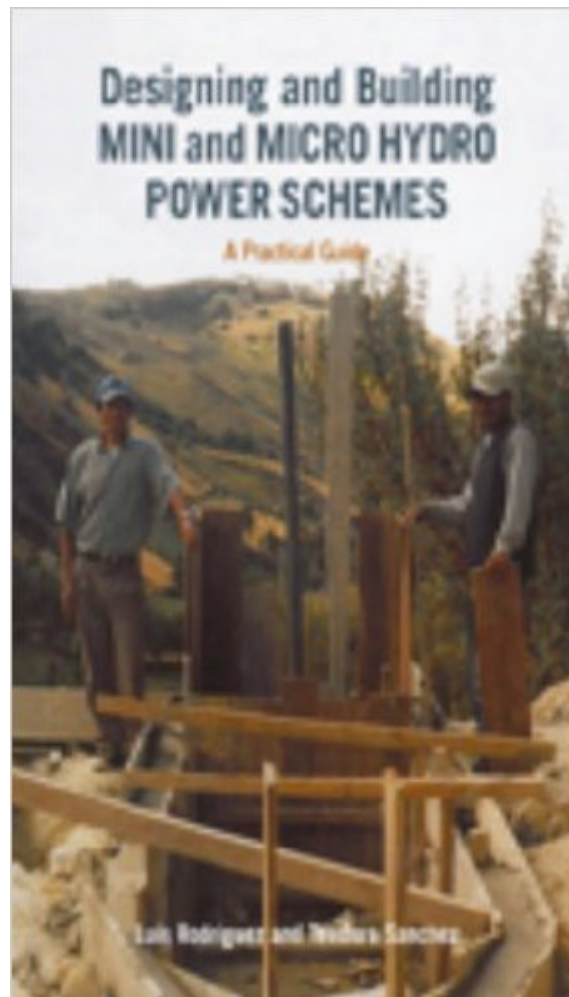


The book was found

Designing And Building Mini And Micro Hydro Power Schemes: A Practical Guide



Synopsis

Small hydro power installations have the potential to provide a renewable supply of energy to people in remote, hilly communities, far from the national grid. This book is based on the authors'™ considerable experience of installing hydroelectric schemes that produce up to 500 kW for powering small communities. This book describes not only the electro-mechanical equipment and how it is installed, but also the correct siting of the installation and how to design and build the channels leading up to the turbine so as to optimize performance. These civil works can be carried out by local manpower, using materials that are usually available locally. Chapters cover the main components of small hydroelectric plants from the intake and the headrace channel, via the conveyance channel, to the forebay tank, penstock, turbine, and generator.

Book Information

Paperback: 320 pages

Publisher: Practical Action (June 24, 2011)

Language: English

ISBN-10: 185339646X

ISBN-13: 978-1853396465

Product Dimensions: 6.2 x 0.8 x 9.1 inches

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

Average Customer Review: 4.2 out of 5 stars [See all reviews](#) (4 customer reviews)

Best Sellers Rank: #1,436,567 in Books (See Top 100 in Books) #19 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Hydroelectric](#) #280 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Electric](#) #397 in [Books > Engineering & Transportation > Engineering > Mechanical > Hydraulics](#)

Customer Reviews

I was pleasantly surprised by the quality of this book. The chapters are logically organized and provide a bounty of tables, charts and diagrams. Chapters are generally arranged by individual system components including intake, headrace channel, penstock, electromechanical equipment, powerhouse building, tailrace channel and commissioning & staff training, among others. Each chapter consists of an introduction to the component, design discussion, construction procedures and technical specifications relating to the specific component. Example calculations are included as appropriate. Overall, this was a very good book.

Clearly written, the book goes into a great detail about site evaluation, hydraulics and the civil works associated with small hydro like the intake, penstock, powerhouse building, etc. Many diagrams and examples.

Good read if you're planning to build a microhydro or picohydro system.

Great book, a little heady for me. Very technical.

[Download to continue reading...](#)

Designing and Building Mini and Micro Hydro Power Schemes: A Practical Guide
Micro-Hydro Design Manual: A Guide to Small-Scale Water Power Schemes
Micro Hydro-Electric Power Stations Planning and Installing Micro-Hydro Systems: A Guide for Designers, Installers and Engineers
Mini Farming & Indoor Gardening: Mini Farming & Indoor Gardening for Fresh & Organic Produce: How To Do Mini Farming In Your Apartment Using Indoor Gardening Techniques
Sustainable Micro Irrigation: Principles and Practices (Research Advances in Sustainable Micro Irrigation)
Allied Power: Mobilizing Hydro-electricity during Canada's Second World War
Power Training: For Combat, MMA, Boxing, Wrestling, Martial Arts, and Self-Defense: How to Develop Knockout Punching Power, Kicking Power, Grappling Power, and Ground Fighting Power
iPad and iPad Mini Made Easy: The easy-to-understand user guide for the iPad and iPad Mini
Praski's Mini-Guide to Polish Food (Praski's Mini Food Guides)
Praski's Mini-Guide to Portuguese Food (Mini Food Guides)
Gardening: The Complete Guide To Mini Farming (Square Foot Gardening, Small Space Gardening, Mini Farming For Beginners)
Micro-Hydropower Sourcebook: A Practical Guide to Design and Implementation in Developing Countries
Mini Farming: How to Build a Backyard Farm and Grow Fresh & Organic Food. Learn How To Avoid 20 Common Mistakes In Growing Vegetables: (Mini Farming Self-Sufficiency ... farming, How to build a chicken coop,) The Desktop Aquarium (Mega Mini Kit): Just Add Water! (Mega Mini Kits)
The Mini Rubber Duckie Kit (Mega Mini Kits)
Mini Farming For Beginners: Learn 10 Best Ways Of Making Your Small Farm Profitable: (Mini Farming Self-Sufficiency On 1/ 4 acre) (Backyard Homesteading, ... farming, How to build a chicken coop,) Mini Atlas of Fetal Anomalies (Anshan Gold Standard Mini Atlas)
Designing Wide Area Networks and Internetworks: A Practical Guide: A Practical Guide
The Large Dam Dilemma: An Exploration of the Impacts of Hydro Projects on People and the Environment in China (Springer Briefs in Environmental Science)

[Dmca](#)