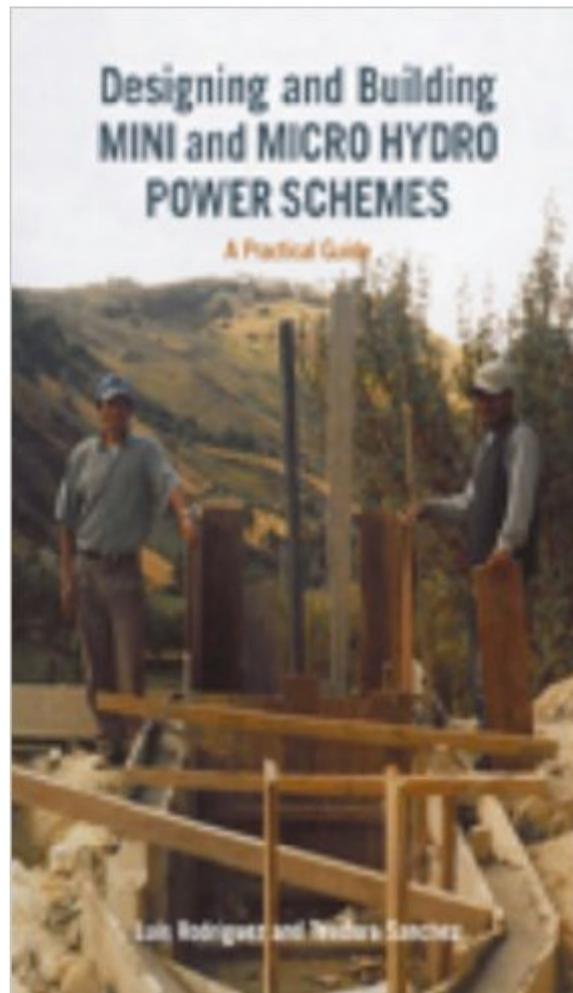


The book was found

# 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

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## 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.

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