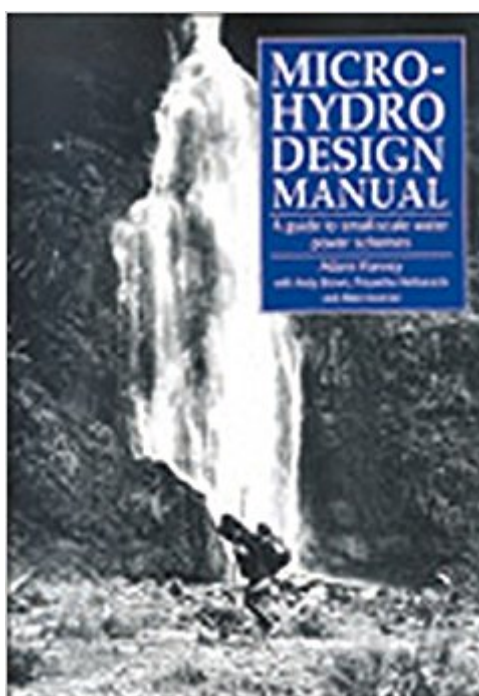


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# Micro-Hydro Design Manual: A Guide To Small-Scale Water Power Schemes



## Synopsis

This book has grown from Intermediate Technology's field experiences with micro-hydro installations and covers operation and maintenance, commissioning, electrical power, induction generators, electronic controllers, management, and energy surveys.

## Book Information

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## Customer Reviews

Adam Harvey has worked for the micro-hydro programme of IT (now Practical Action) in Nepal and Sri Lanka and on training courses for engineers from developing countries. He holds a PhD from the University of Warwick in the field of renewable energy.

This book is focused on very simple hydroelectric designs, especially in developing nations. The chapters are logically organized and provide a good amount of relevant data. Overall - Good.

Absolutely one of my favorite reference titles on hydropower development. The book is well written, in plain English, and is easy to follow. This is a good reference for both non-civil and civil engineers involved in micro-hydropower planning and design. It has relevant and practical worked examples, which will come in handy for the practicing engineer. I strongly recommend it.

I'm a civil engineer involved in the design of large hydropower plants. This book is a complete guide

on the design of a micro-hydropower scheme, particularly well suited if the scheme is located in a developing country. The books cover all subjects ranging from the preliminary studies to the final design of the civil works and of the EM equipment to the maintenance works. It is well written and full of photos and examples. Please buy it if you're involved in the design of small hydropower. The only small suggestion I can do to the author is to introduce some more calculation examples.

It is an excellent reference for those who does not have detailed power generation and strong engineering background. It handles all necessary topics nicely. Astepe

This highly rated manual, covers just about every practical and tangible theoretical introduction to the full design and/up to implementation cycle of MH projects, all in about 370 pages. It is important that it was written and amply illustrated not only with detailed schematics, but also with actual pictures from original installations in developing countries, which makes a viable aid in comprehending the "actual picture". The chapters covered detail a syllabus in: Components and Design of an MH Scheme, Cost benefit estimations, Hydrology and site survey, Flow prediction, Civil works and operational parts (all aspects from Weirs to Penstocks), Commercial engineering, Turbines (including reverse pumps), Governing, Drive systems, a very thorough presentation of the -cumbersome- Electrical Power System aspects, along with Operational, Maintenance, Financial and Commissioning aspects. Should there be something more for an engineer to wish for, would be more info on turbines -something you would expect to find in a specialized book on the subject anyway. The book should provide a valuable asset not only to MH engineers, but to Renewable Energy Technology engineers as well, since it is progressively becoming apparent that a combination of RET along with Pumped Storage and MH, presents a highly attractive opportunity for both developed and developing countries

Very good book that gives you a complete coverage of all the different things that will be involved in building or setting-up a Micro-Hydro power generating plant. It covers from what's electrical power, what are the different kinds of water to energy equipments, how to evaluate if your investment will be profitable, the different kind of generators available, power transmission and so on, very complete and explained in simple terms so that anyone can get the correct idea of what is involved in a Micro-Hydro. Usefull for any person, asociation or organization that wants to set up a Micro-Hydro. A good selection to buy.

This book describes all the aspects involved in getting a micro hydro plant running. It has the right blend of "The birds eye view" on the subject, very useful to people, new to the subject as well as "earth worm view": You can use this use this book as a guide to select the right kind of drive pulley for you plant.

This is not what I was looking for. This is a Book for someone who is putting in hydro for a small town or village, not a personal use.

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