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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.

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Where flow is limited but high heads of water are available the Pelton wheel is one of the most useful turbines. It can be fabricated in small engineering shops with basic facilities. Jeremy Thake explains how to design, make and use them.

Micro-Hydro Design Manual:book Notebook (Journal Gift 120 Page -6 x 9 Soft Cover Matte Finish I 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.There is an increasing need in many countries for power supplies to rural areas, partly to support industries, and partly to provide illumination at night. Government authorities are faced with the very high costs of extending electricity grids. Often micro-hydro provides an economic alternative to the grid. This is because independent micro-hydro schemes save on the cost of grid transmission lines, and because grid extension schemes often have very expensive equipment and staff costs. In contrast, micro-hydro schemes can be designed and built by local staff and smaller organizations following less strict regulations and using 'off-the-shelf' components or locally made machinery.

Waterpower is the largest source of renewable energy in the world today, and microhydro is a mature, proven technology that can provide clean, inexpensive, renewable energy with little or no impact on the environment. Serious Microhydro brings you dozens of firsthand stories of energy independence covering a complete range of systems, from household pressure sites to higher pressure installations capable of powering a farm, business, or small neighborhood. Topics include: Low head and medium head sites AC-only systems as well as ones using a battery/inverter subsystem Stand alone power supply or grid intertie setups Hybrid systems (combined with photovoltaics or wind) With all the variables involved in microhydro, there is no " typical " system. These case studies represent the most comprehensive collection of knowledge and experience available for tailoring an installation to meet the needs of a site and its owner or operators. If you are considering building a system, you are bound to find a wealth of creative solutions appropriate to your own circumstances. Serious Microhydro shows how scores of people are achieving a high standard of living from local energy sources with a minimal ecological footprint. It has particular appeal to homeowners, teachers, renewable energy professionals, activists, and decision makers who want to understand the technology from a " hands-on " perspective. Scott Davis is an award-winning renewable energy project developer with decades of experience operating, installing, designing, selling, and teaching microhydro technology. He is a founder and president of Friends of Renewable Energy BC, and the author of Microhydro: Clean Power From Water.

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. It 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. Designing and Building Mini and Micro Hydropower Schemes is essential reading for engineers, NGO managers and consultants planning and implementing micro hydro schemes. This book's strength is that it is based on years of experience out in the field of designing micro hydro systems that work. Dr Arthur Williams, School of Electrical Electronic Engineering, The University of Nottingham, UK 'For remote communities lucky enough to live near hill streams or rivers, micro-hydro power is the most cost effective way of generating electricity. And it is clean energy. But it takes years of experience and skill to design the weirs, canals and spillways that are needed. Experienced practitioners take you through the whole design process, with drawings and calculations, so that anyone with good practical building skills can learn enough from the many years of knowledge crammed into this instruction book to build a solid scheme, without over-spending.' Ray Holland, Manager, EU Energy Initiative, Partnership Dialogue Facility

This is a guide to the use of induction motors for electricity generation in remote locations. It is written as a practical handbook for engineers and technicians involved in designing and installing small water-power schemes for isolated houses and communities. This revised edition brings in new concepts developed and tested to expand the power range of application of motors as generators, to make this technology safer and more reliable, while keeping costs low and making it accessible to developing countries. It also contains a new chapter on mains-connecting micro-hydro generators. This edition also draws on the practical experience of manufacturers and installers of induction generator units working in village locations in a large number of countries, among them Sri Lanka, Nepal, Peru, Kenya and others.

An essential addition to the Earthscan Planning & Installing series, Planning and Installing Micro-Hydro Systems provides vital diagrams, pictures and tables detailing the planning and installing of a micro-hydro system, including information on the maintenance and economics once an installation is running. The book covers subjects such as measuring head and flow, ecological impacts, scheme layouts, practical advice, calculations and turbine choice. Archimedes screws are also covered in detail, as well as the main conventional choices relevant to small sites. Micro-hydro refers to hydropower systems with a power rating of 100kW or less. A 100kW system will produce 100 standard units of electricity in one hour. These systems have been popular in some sparsely populated or mountainous countries for a number of years, but now new technology, less stringent regulation of grid connected generators and standardised turbine designs are encouraging more widespread interest in micro-hydro in the developed world. The renewable energy sector is growing at a remarkable rate, and whilst much attention has so far focused on solar and wind technologies, Europe and elsewhere have great potential for generating power from small scale hydroelectric installations. This book is aimed at site owners, designers and consultants who are looking to develop schemes in the micro-hydro scale – 5 to 100KW – although the concepts are applicable to smaller and larger schemes.

This Book Can Be Used As A Text Book For The Under Graduate As Well As Post Graduate Curriculum Of Different Universities And Engineering Institutions. Working Personnel, Engaged In Designing, Installing And Analyzing Of Different Renewable Energy Systems, Can Make Good Use Of This Book In Course Of Their Scheduled Activities. It Provides A Clear And Detailed Exposition Of Basic Principles Of Operation, Their Material Science Aspects And The Design Steps.Particular Care Has Been Taken In Elaborating The Concepts Of Hybrid Energy Systems, Integrated Energy Systems And The Critical Role Of Renewable Energy In Preserving Today'S Environment. References At The End Of Each Chapter Have Been Taken From Publications In Different Reputed Journals, Recent Proceedings Of National And International Conferences And Recent Web Sites Along With Ireda And Teri Reports.

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