

1. Record Nr.	UNISALENT0991003214969707536
Titolo	Field guide to appropriate technology [e-book] / edited by Barrett Hazeltine and Christopher Bull
Pubbl/distr/stampa	Boston ; Amsterdam : Academic, 2003
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Descrizione fisica	874 p. : ill. ; 26 cm
Altri autori (Persone)	Hazeltine, Barrett Bull, Christopher
Disciplina	609.1724
Soggetti	Appropriate technology - Developing countries - Handbooks, manuals, etc Electronic books.
Lingua di pubblicazione	Inglese
Formato	Risorsa elettronica
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index
Nota di contenuto	Preface -- Introduction -- Culture and Transfer of Technology -- Design Philosophies for Appropriate Technology -- Being a Volunteer Overseas -- 1. Planning and Implementation -- Overview -- Development Project Management -- The New Participation -- Prelude to Participatory Management -- Social Assessment and Stakeholder Participation -- The Human Side of Change -- Gender and Technology in the Field -- Managing a Small Business -- Operations -- Purchasing Policy and Procedures -- Marketing -- Financial Viability and Cash Flow Statement -- Costing -- Discounted Cash Flow -- Microfinance -- Planning -- Project Selection -- Project Evaluation -- How to Evaluate -- Management of Projects -- Design and Construction Oversight -- Responsibility for Getting Job Done -- Emergency Response Program -- Disaster Relief -- Exit Strategy -- Training -- Thinking and Learning Together -- Grant Writing -- Fund Raising: Social Service Agency in Bolivia -- A Summer Internship in Guatemala -- 2. Energy -- Energy Planning -- Basics of Electricity -- Hydropower -- WindPower -- Photovoltaics -- Cook Stoves -- Solar Cookers -- Solar Heating (Needs Editing) -- Evaporative Cooler -- Charcoal Production -- Fuel Cells -- Batteries -- Alcohol as Fuel -- Tidal Power -- 3. Food -- Introduction -- Agricultural Machinery -- Hydroponics, Rooftop and Related

Gardens -- Urban Gardens -- Sustainable Agriculture -- Hammer Mill of the ELC CAR -- Oil Press -- Vegetable Gardening -- Intensive Gardening -- Soil Fertility And Fertilizer Use -- Amaranth: Grain and Vegetable Use -- Cassava Production -- Cereal Cultivation -- Coconut Production -- Fruit Growing Under Marginal Conditions -- Growing Rice -- Rice Paddy: Harvesting, Threshing, Cleaning, and Handling -- Shiitake Mushrooms -- Agroforestry Principles -- Aquaculture -- Beekeeping -- Raising Cattle -- Raising Chickens -- Raising Ducks -- Ostrich Production -- Raising Pigs -- Raising Rabbits -- Raising Sheep and Goats -- Nutrition -- 4. Health -- Overview -- Words to the Village Health Worker -- Community Health Workers -- Health Care Delivery System -- Culture, Health and the Environment -- Medicinal Plants Versus Pharmaceuticals for Tropical Rural Health Care -- Traditional Health Practitioners -- The Traditional Medical Practitioner In Zimbabwe -- Medicinal Plants -- Water and Health -- Safe Abortion and Post Abortion Care Using MVA -- Diarrhea -- Malaria: Resurgence of a Deadly Disease -- Palliative Care for AIDS Patients -- The Health Impacts of Exposure to Indoor Air Pollution -- Exposure to Indoor Air Pollution from Biofuel Stoves in Rural Kenya -- Dental Health Care -- Third World Health Care Needs -- Health Guidelines for Travelers -- 5. Construction -- Building -- Building Bibliography -- Building with Arches, Vaults, and Cupolas -- Cob Structures -- Straw Bale Construction -- Soil Stabilized Bricks -- Micro-Concrete Roofing Tile Production -- Thatch -- Gypsum -- Bamboo Reinforced Concrete -- Non-Poisonous Timber Protection -- Dry Stone Walling: Applications and Techniques -- 6. Transportation -- RickShaws and Bicycles -- Using Oxen for Farm Work and Transportation -- Pack Animals (Needs Figures) -- Low Cost Transport Device -- Wheel Manufacturing Technology -- Boats -- Earth Road Construction -- Small Scale Bridge Building -- Emergency River Crossing -- Ropeways in the Hindu Kush -- 7. Household Technologies -- Spinning and Weaving -- Dyeing -- Treadle Sewing Machine -- Silk Production -- Soap Manufacturing -- Candles -- Chalk -- Pottery Making -- Basketry -- Making Articles from Paper Waste -- Making Rope -- Recycling and Re-Using Rubber -- Understanding Small Scale Paint Production -- Small-Scale Papermaking -- 8. Water Supply -- Water Harvesting and Spreading For Conjunctive Use of Water Resources (Needs Fig.) -- Rainwater Collection -- Water Saving and Reuse -- Wells: Hand Dug and Hand Drilled -- Solar Stills -- Filtration and Disinfection -- Sanitation -- Latrines -- Composting Toilets -- Water Pumps -- Hydraulic Ram -- Irrigation -- 9. Tools -- Thinking about Tools -- Safety -- Basic Hand Tools -- Sharpening Tools -- Basic Technical Math -- Machine Tools -- Blacksmithing -- Folding Machine for Sheet Metal Work -- Wire Fence Making Machine -- 10. Other Technologies -- Important Technologies -- Telecommunication Services -- Land Mines -- Land Mine Detection -- Mining

Sommario/riassunto

This book is an all-in-one "hands-on guide" for nontechnical and technical people working in less developed communities. It has been developed and designed with a prestigious team of authors, each of whom has worked extensively in developing societies throughout the world. This field guide includes: Step-by-step instructions and illustrations showing how to build and maintain a vast array of appropriate technology systems and devices Unique coverage on healthcare, basic business and project management, principles of design, promotion, scheduling, training, microlending, and more Teachers, doctors, construction workers, forest and agricultural specialists, scientists and healthcare workers, and religious and government representatives will find this book a first source for advice.

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