

SMALL-SCALE IRRIGATION AND WATER MANAGEMENT TECHNOLOGIES FOR AFRICAN AGRICULTURAL TRANSFORMATION

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International Water
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Small Scale Irrigation A Manual Of Lowcost Water Technology

Peter H. Stern



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Small scale irrigation : a manual of low-cost water technology Peter H. Stern,1979 **Small Scale Irrigation** P. H. Stern,1980 **Small Scale Irrigation** Peter H. Stern,1979 The irrigation scene introduction the choice of technology is it worthwhile irrigating Irrigation practice moisture conservation techniques surface irrigation sub soil irrigation overhead irrigation Planning and design climatic factors crops and water physical and chemical characteristics of soil soil and water drainage source development channels and pipelines water lifting *Small Scale Irrigation* Peter Stern,1988-01-01

Small Scale Irrigation Manual of Low-Cost Water Technology Peter H. Stern,1990-02-01 **Water Resources and Agricultural Development in the Tropics** Christopher J. Barrow,2016-07-01 First published in 1988 There are many excellent texts on water supply and irrigation engineering irrigation economics agricultural development and the problems which often plague such efforts Few syntheses of such writings have been made despite a clear need for them from people interested in water resources and agricultural development students of geography economics development studies and agricultural management administrators planners and aid agency staff This book attempts to provide a broad interdisciplinary introduction for such people **The Arid Frontier** Hendrik J. Bruins,Harvey Lithwick,2012-12-06 The arid frontier has been a challenge for humanity from time immemorial Drylands cover more than one third of the global land surface distributed over Africa Asia Australia America and Southern Europe Disasters may develop as a result of complex interactions between drought desertification and society Therefore proactive planning and interactive management including disaster coping strategies are essential in dealing with arid frontier development This book presents a conceptual framework with case studies in dryland development and management The option of a rational and ethical discourse for development that is beneficial for both the environment and society is emphasized avoiding extreme environmentalism and human destructionism combating both desertification and human livelihood insecurity Such development has to be based on appropriate ethics legislation policy proactive planning and interactive management Excellent scholars address these issues focusing on the principal interactions between people and dryland environments in terms of drought food land water renewable energy and housing Audience This volume will be of great value to all those interested in Dryland Development and Management professionals and policy makers in governmental international and non governmental organizations NGOs as well as researchers lecturers and students in Geography Environmental Management Regional Studies Development Anthropology Hazard and Disaster Management Agriculture and Pastoralism Land and Water Use African Studies and Renewable Energy Resources **The Last Oasis** Sandra Postel,2014-07-16 For decades now we have wasted and mismanaged the world s water supplies Today 27 countries are short of water a quarter of the world s population has no safe water 46 per cent have no proper sanitation and each year four million children die of water borne diseases As most of the world s major river systems cross several national boundaries the scope disputes and the threat to international security is

becoming more and more real In *The Last Oasis* Sandra Postel examines the economic ecological and political factors affecting fresh water supply She confronts the issues of mismanagement and profligacy and analyses and dangers of confrontation both between nations and between rural and urban users She also emphasises that the technology and know how for effective water husbandry does exist With methods already in use farmers could cut their demand for water by 40 90 per cent and cities by one third without sacrificing economic output or quality of life Investing in water efficiency recycling and conservation help meet rising demands and stave off disaster But the priority is a common recognition of the gravity of the position and with that a widespread push for institutions to manage sustainable use of water **The Literature of**

Agricultural Engineering Carl W. Hall,Wallace C. Olsen,1992 The second of a seven volume series *The Literature of the Agricultural Sciences* this book analyzes the trends in published literature of agricultural engineering during the past century with emphasis on the last forty years It uses citation analysis and other bibliometric techniques to identify the most important journals report series and monographs for the developed countries as well as those in the Third World **Wood**

Preservation Patrick J. Marer,Mark Grimes,1992 Focuses on safe techniques for using the minimum amount of wood preservation chemicals necessary to protect wood from rot and insect damage whether in the mill at local construction sites or on boats DPR test material QAL and QAC Alternative Irrigation Christopher J Barrow,2014-02-04 An introduction to

runoff agriculture a form of agricultural irrigation this text describes how the use of surface and subsurface water often overlooked and wasted enables both small farmers and commercial agriculturists to improve yields and the security of harvest even in harsh and remote environments The text introduces the techniques and strategies as well as the challenges and the potential of the crucial approach which can contribute so much to reducing land degradation and improving conservation and sustainability **Best practices and technologies for small scale agricultural water management**

in Ethiopia. Proceedings of a MoARD / MoWR / USAID / IWMI Symposium and Exhibition held at Ghion Hotel, Addis Ababa, Ethiopia, 7-9 March, 2006. Awulachew, Seleshi Bekele,Menker, M.,Abesha, D.,Atnafe, T,Wondimkun, Y.,

Policy Irrigation practices Drip irrigation Irrigation systems Water harvesting Irrigation management Water Resources

Management and the Environment U. Aswathanarayana,2001-01-01 Addressing the techno socio economic challenges involved in the protection conservation recycling and equitable utilization of water as an economic good this text explores the linkages and dynamics of interactions involving water and includes the following key topic areas dynamics of interactions involving water water quality augmentation and conservation of water resources wastewater reuse systems use of water in agriculture industrial and municipal uses of water water pollution economics and management of water supplies etiology of water related diseases climate change impacts on water resources and paradigms of water resource management

Indigenous Agricultural Revolution Paul Richards,2023-07-26 Originally published in 1985 this book argues forcefully and practically for new relationship between science and the small farmer It advocates scientific research seeking out changes

which are already taking place within the smallholder farming sector and building on local initiatives Drawing on his experience of West Africa the author demonstrates that many of the most successful innovations in food crop production during the 20th century have indigenous roots and that there should therefore be less emphasis on teaching farmers how to farm and more emphasis on how to foster and support local adaptation and inventiveness This book will be of interest to students of agriculture environmental studies and rural development as well as those working with relief and development agencies

Irrigation Technology Transfer in Support of Food Security Food and Agriculture Organization of the United Nations,1997-01-01 **Smallholder Irrigation Technology** Melvyn Kay,2001-01-01 This report is a view of irrigation technologies for smallholders in the context of improving rural livelihoods especially in regard to the prospects for sub Saharan Africa The role of traditional technologies is evaluated and modern water distribution technologies such as sprinkler and trickle irrigation are reviewed A broad classification has been made based on climate and the traditional agricultural background of the local people which links technology options to specific places to agricultural regions and to countries

Wasting the Rain (Routledge Revivals) William M. Adams Adams,2014-05-01 First published in 1992 this title offers an experienced and constructive evaluation of the ways in which water resources have been developed in Africa Adams argues that the best hope of productive development lies in working and engaging with local people and using local knowledge of the environment effectively Modern large scale developments that have largely been ineffective are examined and emphasis is placed on the importance of using the skills and concerns of those affected such as small farmers to develop ingenious water projects an approach that can be applied worldwide This is an interesting and relevant title which will be of particular value to those with an interest in the developments in water resource conservation over the past two decades

Towards Sustainable Food Production in Africa Morris Fanadzo,Nothando Dunjana,Hupenyu Allan Mupambwa,Ernest Dube,2023-07-10 This edited book is focused on Sustainable Development Goal 2 It offers a comprehensive and topical collection of practices technologies and innovations in the field of sustainable food production and security under a changing climate It is a one stop handbook for farmers researchers extensionists policy makers and other stakeholders seeking to identify and disseminate best fit technologies for local and regional landscapes It offers an understanding of the challenges risks and uncertainties as well as opportunities to foster productive and sustainable food production Smallholder farming and agriculture in general is facing a serious threat from climate change that has resulted in erratic and unpredictable rainfall and increased temperatures among other abiotic stresses These climate change induced pressures have reduced productivity mainly among the smallholder farmers who are critical in driving the attainment of sustainable development goals like SDG 2 12 and 13 The objective of the book is to document effective and practicable practices and technologies that can be adopted by smallholder African farmers as mitigation measures against the effects of climate change This book is of interest to researchers agricultural scientists climate change scientists capacity builders and

policymakers **Rainwater-Smart Agriculture in Arid and Semi-Arid Areas** Walter Leal Filho,Josep de Trincheria Gomez,2017-12-28 This book introduces state of the art approaches methods and research focusing on smart management of rainwater In addition it provides an overview of projects from across the world illustrating how rainwater smart management has been implemented in drylands Focusing on the scientific perspective it demonstrates how rural dryland agriculture can be improved It also documents the wealth of rainwater smart know how available today and replicates and transfers results to other countries and regions to encourage cross sector interactions among various stakeholders such as practitioners from governmental and public organisations policy and decision makers and teaching staff from academic scientific institutions The contributors showcase vital lessons learned from research field projects and best practice examples They address the integrated use of rainwater harvesting management with landscape restoration practices and water and climate smart agriculture for food security and poverty alleviation in arid and semi arid areas Original research combined with the contributors synthetic approach lays a foundation for new concepts and ideas Through case studies and research reports the book discusses all the relevant issues necessary for the comprehensive analysis and successful implementation of the technologies in rainwater management Highlighting the working principles and technical recommendations with regard to cost efficient rainwater smart solutions it is of interest to practitioners It is also a valuable resource for academic specialists professionals and students since many development agencies are funding rainwater harvesting for irrigation purposes

The United States Government Manual ,1973

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