

Irrigation Engineering By R K Sharma

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Enhancing Irrigation Water Productivity Anil Kumar Mishra 2020-09-01 Water a key natural resource, fundamental to life, livelihood, food security and sustainable development is rapidly becoming scarce and limited. Agriculture is the major water user in our country utilizing nearly 70-80 per cent of all the utilizable water resources of the country. Therefore, Agricultural Water Management (AWM) interventions aim at enhancing per capita benefits, while preventing the degradation of natural resource bases of land, water and ecosystem services. Evidence shows that AWM interventions have increased yields, which has helped areas with low productivity. In recent past a large number of new techniques and advanced tools have been invented in recent past which can enhance the water productivity in agriculture to a very high level. Knowledge adoption and extensive use of these tools and techniques needs proper dissemination. There is a dearth of ample number of technically trained manpower to undertake the work of On-farm AWM. Therefore, the present book has been organized with following specific objectives: i) to impart the advanced knowledge of On-farm water management using modern concepts, tools and techniques for assessing, planning and designing the AWM (irrigation and drainage) systems and to disseminate these techniques for enhancing crop water use efficiencies; ii) to train the readers in designing, installation operation and automated operation, controls and management of high-tech irrigation water management systems; and iii). to provide the participants an opportunity to discuss and exchange the new ideas/knowledge with experts/resource persons who have contributed substantially in Agricultural Water Management (AWM). The book has a very wide spectrum covering almost all topics pertaining to advanced concepts and methods of modern Agricultural Water Management. The present book will provide to the readers an in-depth understanding of various related topics pertaining to highly efficient irrigation water management for crop production and enhancing agricultural water productivity such as scientific design and layout of farm irrigation and drainage, soil water content measurement using TDR/Neutron Moisture meters/Soil moisture probe, geophysical techniques of groundwater exploration etc. It will elaborate the concepts and methodology of using modern instruments and systems of irrigation such as drip, sprinkler, rain gun, level basin system etc. that would be an added benefit. Applications of modern techniques such as GIS and remote sensing applications for enhancing water resources use efficiencies in irrigation project, sensor based weather data collection and automated irrigation management and control systems under open field and covered cultivation have been explained in depth. The book shall impart the comprehensive knowledge on advanced concepts in Soil-Plant-Climate interactions, scientific estimation of crop water demand, various irrigation

scheduling criterions and application of modern tools and techniques such as; application of computer softwares (such as EQUITA/DRIPD/CROPWAT/AQACROP/IMPASSE/USAR etc.) for irrigation planning and management; under different water supply scenarios in a lucid manner.

Whitaker's Books in Print 1998

Water Resources Development and Management 2004 The Papers In The Volume Arise From The Second International Conference On The Subject Held In 2002. Papers Are Grouped Under 5 Chapters–Ground Water Development And Management Drinking Water Supply And Management–Watershed Development–Water Resources Management–Agriculture Development And Conservation And Management Of Water Resources For Sustainable Development. In All There Are 28 Papers.

Soil and Groundwater Pollution from Agricultural Activities T. V. Ramachandra 2006-01-01 Groundwater is an important source of water for the industrial and agricultural sectors. The course book on soil and groundwater pollution from agricultural activities introduces the reader to major agricultural activities in India and their impact on soil and groundwater.

Practical Civil Engineering P.K. Jayasree 2021-05-03 The book provides primary information about civil engineering to both a civil and non-civil engineering audience in areas such as construction management, estate management, and building. Basic civil engineering topics like surveying, building materials, construction technology and management, concrete technology, steel structures, soil mechanics and foundations, water resources, transportation and environment engineering are explained in detail. Codal provisions of US, UK and India are included to cater to a global audience. Insights into techniques like modern surveying equipment and technologies, sustainable construction materials, and modern construction materials are also included. Key features: • Provides a concise presentation of theory and practice for all technical in civil engineering. • Contains detailed theory with lucid illustrations. • Focuses on the management aspects of a civil engineer's job. • Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies. • Includes codal provisions of US, UK and India. The book is aimed at professionals and senior undergraduate students in civil engineering, non-specialist civil engineering audience

Applications of Furrow and Micro Irrigation in Arid and Semi-Arid Regions Megh R. Goyal 2015-06-18 Applications of Furrow and Micro Irrigation in Arid and Semi-Arid Regions, the fifth volume in the Research Advances in Sustainable Micro Irrigation series, addresses the ever-challenging need for irrigation systems in arid and semi-arid regions of the world, areas that are suffering from severe water shortages. These areas, such as Egypt, Tunisia, most of Africa, and parts of South America, Central America, and Australia, find it a struggle to grow crops sustainably with the water available. This important book emphasizes sustainable agriculture practices to promote increased water usage efficiency in dry areas for growing of crops. It presents a variety of research and studies on such topics as: • Meteorological instruments for water management • Buried micro irrigation laterals for soil water retention • Water vapor flux models • Performance of various crops grown under different irrigation methods • Scheduling of irrigation • Phyto-monitoring techniques This valuable book is a must for those finding it a challenge to maintain sustainable crop production in the midst of continuous water shortages in areas where water is not naturally plentiful. With contributions from authors with hands-on experience in the field, the book will be an invaluable reference and guide to effective micro irrigation methods.

Indian Journal of Power and River Valley Development 1984

Fundamentals of Reinforced Concrete Sinha N.C. & Roy S.K. 2007 This book on Reinforced Concrete has been comprehensively revised with a view to make it more suitable for the updated syllabus of various Technical Institutes and Engineering Colleges of different Universities.

Hidrología hidráulica y socavación en puentes Tomás Ochoa Rubio 2013

Journal of the Institution of Engineers (India). 1996

International Conference, Watershed Management and Conservation, 8-10 December 1998, New Delhi, India 1998

Proceedings India. Central Board of Irrigation and Power. Research and Development Session 1986

Indian Books in Print 2003

GROUNDWATER HYDROLOGY V. C. AGARWAL 2012-07-24 This book presents a comprehensive discussion of basics of groundwater hydrology, its hydrologic and engineering aspects, and the mechanics involved in the study of flow of groundwater. The matter is presented in a logical sequence, placing emphasis on the application of theory and on the practical aspects of groundwater hydrology. The book introduces the geological formations of aquifers, discusses soil physics, describes the solutions of differential equations for confined and unconfined aquifers, elucidates groundwater flow equations and explains the phenomenon of interference of wells. The book also deals with tube wells and open wells, their design criteria, construction and work, revitalization and spacing, as well as their potential for irrigation. The issues of groundwater prospecting, analog models to study the response of aquifers to simulated field conditions, the current issues of concern pertaining to quality parameters of groundwater, and applications of remote sensing for survey and geological explorations for groundwater, are all addressed in the latter part of the book. The book is intended for the senior undergraduate students of civil engineering and postgraduate students (who specialize in Water Resources Engineering) of civil engineering. Besides it will be useful to the students pursuing courses in agricultural engineering. KEY FEATURES : Includes numerous objective-type questions (with answers) at the end of each chapter Contains worked-out numerical problems Provides chapter-end questions and unsolved numerical problems with answers for practice by students

Tribology in Industries Srivastava, Sushil Kumar 2004-08 A Textbook-cum-reference book for Undergraduate, Graduate and Postgraduate students of Mechanical, Electrical, Maintenance and Production Engineering disciplines. This book would also be of immense help to various practising engineers, technologists, managers and supervisors engaged in the maintenance, operation and upkeep of the different machines, equipments, systems and plants of various industries.

Natural Resources Management and Biological Sciences Edward R Rhodes 2021-02-17 The natural resources of the Earth are indispensable for the survival of humans, plants, and animals and for the state of biodiversity. The way they are managed determines the extent to which they will be preserved for future generations. Climate change underscores the need for the proper use of natural resources. This book brings together reviews of literature and the results of research studies on the status and management of soil, water, plant, and wildlife resources, especially as they relate to the biological sciences, in Africa, Asia, Europe, North America, and Latin America. It covers work on classification and inventories, impacts of anthropogenic activities, and exploitation and conservation. The book will be of interest to scientists and practitioners of natural resource management worldwide.

Fields of Victory Kathleen D. Morrison 1995

Sustainable Micro Irrigation Design Systems for Agricultural Crops Megh R. Goyal 2015-08-20 This new book, Sustainable Micro Irrigation Design Systems for Agricultural Crops, brings together the best research for efficient micro irrigation methods for field crops, focusing on design methods and best practices. Covering a multitude of topics, the book presents research and studies on: Indigenous alternatives for use of saline and alkali waters Hydraulic performance Distribution of moisture Fertigation technology Buried micro irrigation laterals Drip irrigation scheduling Rainwater harvesting Adoption and economic impact of a micro irrigation model This book is a must for those interested in irrigation planning and

management, namely, researchers, scientists, educators, and students.

Micro Irrigation Engineering for Horticultural Crops Megh R. Goyal 2017-09-07 This book presents a variety of policy adoption methods, irrigation scheduling, and design procedures in micro irrigation engineering for horticultural crops. The chapters range from policy interventions to applications of systems for different crops and under different land conditions. Compiling valuable information and research, the book is divided into three main sections: Policy Options: Drip Irrigation Among Adopters Irrigation Scheduling of Horticultural Crops Design of Drip Irrigation Systems The editors present valuable research and information on micro irrigation methods in an effort to focus on innovation and evolving new paradigms for efficient utilization of water resources. The adoption of micro irrigation systems can be a panacea for irrigation related problems and can help to increase the yield and area under cultivation, especially for small farmers without abundant technological resources. *Micro Irrigation Engineering for Horticultural Crops: Policy Options, Scheduling, and Design* will be valuable for agricultural engineering students, irrigation engineers, and scientists/professors in engineering.

Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures Helaine Selin 2008-03-12 Here, at last, is the massively updated and augmented second edition of this landmark encyclopedia. It contains approximately 1000 entries dealing in depth with the history of the scientific, technological and medical accomplishments of cultures outside of the United States and Europe. The entries consist of fully updated articles together with hundreds of entirely new topics. This unique reference work includes intercultural articles on broad topics such as mathematics and astronomy as well as thoughtful philosophical articles on concepts and ideas related to the study of non-Western Science, such as rationality, objectivity, and method. You'll also find material on religion and science, East and West, and magic and science.

Management, Performance, and Applications of Micro Irrigation Systems Megh R. Goyal 2014-08-19 *Management, Performance, and Applications of Micro Irrigation Systems*, the fourth volume in the *Research Advances in Sustainable Micro Irrigation* series, emphasizes sustainable and meaningful methods of irrigation to counter rampant water scarcity. In many parts of the world, this scarcity significantly affects crop yield, crop quality, and, consequently, human quality of life. This important volume presents the best management practices in sustainable micro irrigation, with the goal of increasing crop yield and quality and conserving water. The practices described are practical and attainable and are based on research and studies from many areas of the world, including India, South Africa, and other areas. The applications described can be adapted and applied to many regions with a critical need to address the water crisis in crop production. The practices and applications presented include: • Partial root-zone surface drip irrigation • Effective maintenance techniques • Web-based irrigation scheduling • Water use efficiency methods • The use of flushing and filtration systems This valuable book is a must for those struggling to find ways to address the need to maintain efficient crop production in the midst of water shortages. With chapters from hands-on experts in the field, the book will be an invaluable reference and guide to effective micro irrigation methods.

Asian Perspectives 1993

South Asian Archaeology, 1993 Association of South Asian Archaeologists in Western Europe. International Conference 1994

Elements of Water Resources Engineering K. N. Duggal 1996 The Book Conforms To The Modern Concept Of Treating The Diversified Problems Of Water Resources Engineering Through A Multi-Disciplinary And Integrated Approach And Incorporating It In The Educational Curriculum For Effective And Comprehensive Teaching. It Specifically Deals With The Principal Segments Of Water Resources Engineering Which Include

Hydrology, Ground Water, Water Management For Irrigation And Power, Flood Control, Engineering Economy In Water Resources Projects For Flood Control, Project Planning In Water Resources, Concrete And Earth Dams. Because Of The Multi-Disciplinary Nature Of Water Resources Engineering Problems, It Is Seldom Possible To Do Full Justice To The Subjects Unless The Teaching Imparts Background Knowledge Of The Allied Disciplines, Viz., Probability And Statistics, Engineering Economics And Systems Engineering. The Book Represents An Attempt To Fulfill This Primal Need. The Book Would Primarily Benefit Students Doing Graduation In Civil Engineering And Those Appearing In Section-B Examination Of The Institution Of Engineers (India). Besides, Some Of The Topics Covered In The Book Would Also Be Of Much Use By Post-Graduate Students In Water Resources Engineering.

Publisher's Monthly 2006

Fundamentals of Structural Analysis, 2nd Edition Roy, Sujit Kumar & Chakrabarty Subrata 2003 For B.E./B.Tech. in Civil Engineering and also useful for M.E./M.Tech. students. The book takes an integral look at structural engineering starting with fundamentals and ending with computer analysis. This book is suitable for 5th, 6th and 7th semesters of undergraduate course. In this edition, a new chapter on plastic analysis has been added. A large number of examples have been worked out in the book so that students can master the subject by practising the examples and problems.

Sustainable Water Engineering Ramesha Chandrappa 2014-06-16 Ensuring safe and plentiful supplies of potable water (both now and for future generations) and developing sustainable treatment processes for wastewater are among the world's greatest engineering challenges. However, sustainability requires investment of money, time and knowledge. Some parts of the world are already working towards this goal but many nations have neither the political will nor the resources to tackle even basic provision and sanitation. Combining theory and practice from the developing and developed worlds with high- and low-tech, high- and low-cost solutions, this book discusses fundamental and advanced aspects of water engineering and includes: water resource issues including climate change, water scarcity, economic and financial aspects requirements for sustainable water systems fundamentals of treatment and process design industrial water use and wastewater treatment sustainable effluent disposal sustainable construction principles With integrated theory, design and operation specifications for each treatment process, this book addresses the extent to which various treatment methods work in theory as well as how cost effective they are in practice. It provides a nontechnical guide on how to recover and reuse water from effluent, which is suitable for those in water resource management, environmental planning, civil and chemical engineering.

Publication 1988

The Indian Concrete Journal 1985

Journal of the Institution of Engineers (India). Institution of Engineers (India). Civil Engineering Division 1976

Irrigation Systems Engineering Balram Pannigrahi 2011-01-15 This is a text book for agriculture and agricultural engineers and will be very much helpful for the beginning students in irrigation. It is designed to guide students from a basic knowledge of soil, mathematics, hydrologic and hydraulics to the state-of-the-art irrigation system design and management. Since major and medium irrigation projects are too costly and at the same time are not eco-friendly, the major thrust of research is now being imparted on low cost and easy to construct farm irrigation structures. The primary aim of the book is to design an optimum size small scale water harvesting structure which is the farm pond mostly used by the farmers in the farms. My goal is to present the principles and concepts of farm irrigation in a simple manner to maximize the students learning, understanding and motivation. The method and order of presentation have been carefully developed and classroom tested to make this book a useful and effective teaching tool. The book will not only be a helping tool to the students and teachers in agriculture and agricultural

engineering but also to all the practicing engineers, agriculturists, soil conservationists and agricultural extension workers who deal directly or indirectly with water management and other associated farm development works. However, the book cannot be used for design of complex hydraulic structures including dams and reservoirs. The book contains 23 solved problems, 238 short and long type questions, 42 tables, 55 figures and more than 138 references which will be immensely helpful to the students and design engineers. Several field experimental results have also been incorporated in the book at appropriate sections to make the book interesting for the readers.

Indian Books 1984

Environmental Management in Hydropower and River Valley Projects R. S. Goel 2000 In the Indian context; papers presented at the National Workshop on Assessment and Management of Environment Impacts in Hydropower and River Valley Projects, held on 9-12 May, 2000, at Hotel Samrat, New Delhi, India.

IRRIGATION AND WATER POWER ENGINEERING MADAN MOHAN DAS 2009-01-24 Designed primarily as a textbook for the undergraduate students of civil and agricultural engineering, this comprehensive and well-written text covers irrigation system and hydroelectric power development in lucid language. The text is organized in two parts. Part I (Irrigation Engineering) deals with the methods of water distribution to crops, water requirement of crops, soil-water relationship, well irrigation and hydraulics of well, canal irrigation and different theories of irrigation canal design. Part II (Water Power Engineering) offers the procedures of harnessing the hydropotential of river valleys to produce electricity. It also discusses different types of dams, surge tanks, turbines, draft tubes, power houses and their components. The text emphasizes on the solutions of unsteady equations of surge tank and pipe carrying water to power house under water hammer situation. It also includes computer programs for the numerical solutions of hyperbolic partial differential equations. **KEY FEATURES** : Provides worked out examples and problems (in SI units). Presents all possible methods of design including Ranga-Raju-Misri's new approach of canal design. Gives numerous illustrations to reinforce the understanding of the subject. Besides undergraduate students, this book will also be of immense use to the postgraduate students of water resources engineering.

Irrigation Engineering (Including Hydrology) Sharma R.K. & Sharma T.K. 2008 The First Edition of this treatise on Irrigation Engineering duly subsidised by national Book trust, Government of India, published in 1984. was highly acclaimed by the engineering teachers and students and its revised edition appeared in 1990. The dynamism inherent in the subject necessitated drastic changes in the text, prompted by the overwhelming response of irrigation and agriculture engineering students and practising engineers in the country and abroad duly patronised by the publications, Shri Ravindra Kumar Gupta, Managing Director, S.Chand & Company Ltd., New Delhi

Hydropower and River Valley Development R. S. Goel 2000 Proceedings of the International Conference on Hydropower and River Valley Development, 1st-2nd December 1999, New Delhi, India.

Thai Journal of Agricultural Science 1990

A Textbook Of Water Power Engineering RK Sharma | TK Sharma 2003 Including Dams Engineering, Hydrology and Fluid Power Engineering. For the student of B.E./B.Tech. Civil Engg., Institution of Engineers (India) U.P.S.C. Exam & Practising Engineers.

International Conference Accelerated Hydro Power Development and Pumped Storage Development, 1-3 December 1997, New Delhi, India 1997 With reference to India.

International Books in Print 1991

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