

# DRAINAGE PRINCIPLES AND PRACTICES, DESIGN

## **What is drainage ?**

- is the removal of a surface's water and sub-surface water from an area with excess of water.



**Drainage** can be either **natural** or **artificial**. Many areas have some natural

# Field Drainage Principles And Practices

**John Hancock Klippart**



## **Field Drainage Principles And Practices:**

Field Drainage D. A. Castle, J. McCunnall, I. M. Tring, 1984 Soil water and agricultural needs Benefits from drainage Drainage problems and treatments Site survey Climate and drainage Hydrology and drainage Farm ditches Underdrainage design Pipe size design Mole drainage Subsoiling Special problems Drainage machinery and equipment Wokkamanship and materials Maps and plans Legislation and land drainage Conservation Drainage Engineering: Principles and Practices S.K. Gupta, 2019-04-01 The current book attempts to fill the gap in one of the major subject of land drainage that will have a major impact on production and productivity of irrigated lands The book Titled Drainage Engineering Principles and Practices deals with the subject of surface and subsurface drainage to reclaim waterlogged salt affected soils Based on the course curricula as suggested by Deans committee constituted by ICAR the current publication has been divided into 11 Chapters covering all the facets of land drainage as applied to agriculture Each chapter covers one of the related issues beginning with general introduction to water logging soil salinity and land drainage in Chapter 1 Surface drainage methods an essential intervention in monsoon climatic regions and as supplement to the subsurface drainage are included in Chapter 2 Drainage investigations a precursor to problem diagnosis and to assemble the drainage design parameters are included in Chapter 3 The drainage design procedures such as assessment of drainage depth spacing and capacity of drains forms the subject matter of Chapter 4 While drainage materials are discussed in Chapter 5 drainage construction procedures and methodologies to monitor and evaluate completed projects are included in Chapter 6 Some of the new drainage techniques such as mole interceptor vertical and bio drainage have been included in Chapter 7 since these can either be applied singly or in integration with horizontal subsurface drainage Chapters 8 10 deal withreclamation of salt affected soils acid soils and management of saline water Eco friendly reuse and disposal of saline drainage wateralso form the subject matter of discussion of Chapter 10 Cost calculations socio economic and environmental issues associated with drainage projects have been included in final chapter 11 Glossary of terms has been added for quick overview of the terms used in the book Clearly each and every aspect of surface and subsurface drainage for agricultural lands has been covered in the book Besides covering the principles of land drainage field practices have been included making the book a handy tool for specialized training programmes on land drainage It is believed that the book will find its place in the shelves of students and teachers field functionaries and libraries of state agricultural universitiesand civil engineering colleges **Land Drainage: Principles, Methods and Applications** Bhattacharya, A.K. & Michael, A.M., 2006 Land Drainage Principles Methods and Applications presents the latest information concepts and technology for ensuring sustainable agricultural production and environmental management by adopting land drainage measures It focuses on a subject central to the sustainability of irrigated agriculture The authors considerable field work experience and strong grip on the subject are pivotal in conceptualizing this book This book provides an explicit description of the subject for students as well as the practicing

engineers in this area A logical sequence is followed in the presentation of chapters beginning with the occurrence of drainage problems their causes remedies design and execution of drainage systems and the benefits of drainage The book can claim to be the only comprehensive title on the subject in India SALIENT FEATURES 1 Follows an application centric approach based on mathematical and statistical concepts 2 Provides a global scenario of drainage by studying different drainage models 3 Discusses drainage in the Indian context 4 Text is supported by statistical inputs and well illustrated examples 5 Includes self assessment questions with answers and a number of solved and unsolved problems 6 Includes case studies of Drainage and Salt Management

**The Principles and Practice of Land Drainage ...** John Hancock Klippart,1894 [Agricultural Drainage Principles and Practices](#) Agricultural drainage principles and practices,2016 **The Principles and Practice of Land Drainage** Edward Richard Jones,1910 [The Principles and Practice of Land Drainage](#) John Hancock Klippart,1888 **Agricultural Drainage** ,1850 **Agricultural Drainage** U. S. Kadam,2008-01-01 **The Principles and Practice of Land Drainage** John H (John Hancock) 182 Klippart,2023-07-18 A comprehensive guide to land drainage by a noted civil engineer Klippart covers the history and science of underdraining provides detailed instructions on building various types of drains and includes practical advice on site selection and design This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

*Wetland Drainage, Restoration, and Repair* Thomas R. Biebighauser,2014-11-04 Wetlands are a vital part of the landscape and ecology of the United States providing food and shelter for species ranging from the beautiful wood duck to the tiny fairy shrimp These areas provide critical habitat for fish and wildlife protect communities from flooding and recharge groundwater supplies yet they continue to be destroyed at an alarming rate A detailed analysis of wetlands management *Wetland Drainage Restoration and Repair* is a comprehensive guide to the past present and future of wetland recovery in the United States The book includes a historical overview of wetland destruction and repair over the past two hundred years and also serves as a unique resource for anyone from novice to engineer interested in the process of wetland restoration Author Thomas R Biebighauser draws from his own vast experience in building and repairing more than 950 wetlands across North America Included are numerous photographs and case studies that highlight successes of past projects Detailed step by step instructions guide the reader through the planning and implementation of each restoration action Biebighauser also provides a number of effective strategies for initiating and improving funding for wetlands programs *Wetland Drainage Restoration and Repair* is essential reading for all who care about and for these important ecosystems

Principles and Practice of Land Drainage: Embracing a Brief History of Underdraining; a Detailed Examination of Its Operation and Advantages: a Description of Various Kinds of Drains, with Practical Directions for Their Construction: the Manufacture of D ,1862     Irrigation Theory And Practice - 2Nd Edn A M Michael,2009-11 It is a comprehensive treatise on Water Resources Development and Irrigation Management For the last 30 years the book has enjoyed the status of an definitive textbook on the subject It has now been thoroughly revised and updated and thus substantially enlarged In addition to the wholesale revision of the existing chapters three new chapters have been added to the book namely Lift Irrigation Systems and their Design Water Requirement of Crops and Irrigation Management and Economic Evaluation of Irrigation Projects and Water Pricing Policy     *Catalogue of the library of the Massachusetts Horticultural Society* Massachusetts Horticultural Society,1918     The Principles and Practice of Land Drainage Edward Richard Jones,University of Wisconsin--Madison. Agricultural Experiment Station,1910     **Submarginal Land** ,1916     **Great Plains Natural Resources Journal** ,2004     **Annual Reports of the Department of Agriculture for the Year Ended June 30, 1917** U.S. House of Representatives,1918     *Annual Reports of the Department of Agriculture for the year ended June 30, 1917* U.S. Congress,1918     The principles of field drainage H. H. Nicholson,1946 Former neglect of drainage work Measures of government assistance Teh history of field draining developments in great britain The moisture properties of soil The incidence of drainage Percolation Permeability The water table The special case of clay land Drainage conditions in the field Soil and site factors The main types of drainage circumstances The use of published maps in field drainage work The investigation of field drainage problems Ditches Tile draining Methods and principles Renovation of old systems Desing and materials Mole draining Suitable soils details causes of failure machinery procedure The way in which drains work Rates of flow from outfalls Drainage of aerodrome sports grounds and field fortifications Field drainae river flow and floods Field drainage Present position and progress

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