

second edition



Modern Land Drainage

Planning, Design and Management of
Agricultural Drainage Systems

Willem F. Vlotman
Lambert K. Smedema
David W. Rycroft



Land Drainage Planning And Design Of Agricultural Drainage Systems

Robert W. Brashear, Č Maksimović



Land Drainage Planning And Design Of Agricultural Drainage Systems:

Land Drainage Lambert K. Smedema, David W. Rycroft, 1983 **Modern Land Drainage** Willem Vlotman, Lambert Smedema, David Rycroft, 2020-05-07 Modern Land Drainage 2nd edition is a fully revised and updated edition of the 2004 edition Modern Land Drainage describes traditional drainage formulas Hooghoudt Kirkham Donnan Ernst Glover Dumm for rainfed agriculture in the humid temperature zone Significant parts are devoted to drainage for salinity control of irrigated land in semi arid zones and to drainage of rice land in the humid tropics Institutional management and maintenance aspects are extensively covered as well as the mitigation of adverse impacts of drainage interventions on the environment The latest computer applications for drainage design in the context of integrated water management are described DRAINMOD HEC SWAP etc Field surveys are executed by governments with the aid of consultants but rarely are the end stakeholders i.e farmers and general public involved from inception to planning to execution of a drainage system Yet during the Operation Management and Maintenance OMM phase of a water management system they are expected to takeover run bear and be responsible for the costs of OMM The book describes successful methodologies and processes to be followed for engagement of stakeholders at all levels from government to farm from minister to farmer and from beginning to end The book covers all aspects needed for sustainable drainage The latest survey methodologies with satellites and drones are suggested to assess cause and effect Waterlogging and salinity are the effect of something caused most likely upstream of the drainage problem location Hence treating the cause may be more cost effective Triple Bottom Line social environmental and financial considerations and the water food energy nexus are an integral part of the drainage design process Controlled drainage i.e the balance of removal and conservation of drainage water and minimising solute transport as low as reasonably achievable ALARA principle is extensively described This work is intended for use both as a university level textbook and as a professional handbook it is of particular value to professionals engaged in drainage development in the context of integrated water resources and river basin management civil and agricultural engineers government officials university students and libraries **Drainage Principles and Applications** International Institute for Land Reclamation and Improvement, 1994 This text book brings together 26 chapters 546 figures 166 tables a glossary of 332 definitions Being the result of ILRI's core business bringing together the principles and applications of drainage by giving international courses on drainage

Materials for Subsurface Land Drainage Systems L. C. P. M. Stuyt, W. Dierickx, J. Martínez Beltrán, 2005 Reliable subsurface drainage systems for groundwater table and salinity control are needed to maintain or enhance the productivity of irrigated lands and to contribute to the rural development of lowlands in the humid tropic This publication presents guidelines to assess the need for envelopes and for the selection of appropriate materials i.e pipes and envelopes for the proper and lasting performance of subsurface drainage systems In addition it also contains guidelines for adequate installation and maintenance of drainage materials as well as the required specifications and standards of such materials

which may be used in tender documents for implementation of subsurface drainage works Practical guidelines for the implementation of laboratory and field investigations to evaluate the performance of drainage materials have also been included Publisher s description *Guidelines and Computer Programs for the Planning and Design of Land Drainage Systems* W. H. van der Molen,J. Martínez Beltrán,Walter J. Ochs,2007 The aim of this paper is to facilitate the planning and design of land drainage systems for sound land and water management for engineers and other professionals It considers the integration of technical socio economic and environmental factors and the need for system users participation in the planning design operation and maintenance processes The text provides guidelines for the appropriate identification of drainage problems for the planning and design of field drainage systems surface and subsurface and the main drainage and disposal systems The annexes provide more detailed information with technical background appropriate equations some cross references for finding appropriate methodologies and computer programs for calculation of extreme values of permeability and some land drainage system parameters Publisher s description *Irrigation and Drainage Engineering* Peter Waller,Muluneh Yitayew,2015-11-18 This textbook focuses specifically on the combined topics of irrigation and drainage engineering It emphasizes both basic concepts and practical applications of the latest technologies available The design of irrigation pumping and drainage systems using Excel and Visual Basic for Applications programs are explained for both graduate and undergraduate students and practicing engineers The book emphasizes environmental protection economics and engineering design processes It includes detailed chapters on irrigation economics soils reference evapotranspiration crop evapotranspiration pipe flow pumps open channel flow groundwater center pivots turf and landscape drip orchards wheel lines hand lines surfaces greenhouse hydroponics soil water movement drainage systems design drainage and wetlands contaminant fate and transport It contains summaries homework problems and color photos The book draws from the fields of fluid mechanics soil physics hydrology soil chemistry economics and plant sciences to present a broad interdisciplinary view of the fundamental concepts in irrigation and drainage systems design **Drainage of Irrigated Lands** H. P. Ritzema,R. A. L. Kselik,Fernando Chanduvi,Food and Agriculture Organization of the United Nations,1996 **Textbook on water management engineering** Wagdy Nazir Dimian,The Anglo Egyptian Bookshop 18-12-2024,[Drainage of Agricultural Lands](#) James N. Luthin,1957 The physics of land drainage The theory of land drainage Engineering aspects of land drainage Drainage investigation methods Land drainage in relation to soils and crops *Materials for Subsurface Land Drainage Systems* L. C. P. M. Stuyt,W. Dierickx,J. Martínez Beltrán,2005 Reliable subsurface drainage systems for groundwater table and salinity control are needed to maintain or enhance the productivity of irrigated lands and to contribute to the rural development of lowlands in the humid tropic This publication presents guidelines to assess the need for envelopes and for the selection of appropriate materials i e pipes and envelopes for the proper and lasting performance of subsurface drainage systems In addition it also contains guidelines for adequate

installation and maintenance of drainage materials as well as the required specifications and standards of such materials which may be used in tender documents for implementation of subsurface drainage works Practical guidelines for the implementation of laboratory and field investigations to evaluate the performance of drainage materials have also been included Publisher s description *Primrose McConnell's The Agricultural Notebook* R. J. Halley,R. J. Soffe,2016-01-21 Primorse McConnell s The Agricultural Notebook 18th Edition is a collection of articles about important areas of discussion in agriculture all of which written by experts from different related fields The book is divided into four parts Part 1 deals with concepts related to crop production such as soil its classifications mineral components and physical properties the benefits problem diagnosis and system layout and maintenance of drainage systems the physiology nutrition and kinds of crops and related problems such as weeds and diseases and their control Part 2 is concerned with animals important in agriculture and deals with topics such as livestock feeds and the breeding management and meat production of cattle sheep goats pigs and poultry Part 3 discusses farm equipment such as tractors crop sprayers and planting machines Part 4 tackles the management of the farming business and its staff it also tackles laws related to agriculture and the health and safety of its personnel The monograph is recommended for entrepreneurs in the field of agriculture as well as those concerned in its studies and improvement Urban Drainage Modeling Robert W. Brashear,Č Maksimović,2001 This collection contains 91 papers presented at a specialty symposium on urban drainage modeling at the World Water and Environmental Resources Congress held in Orlando Florida May 20 24 2001 **Encyclopedia of Environmental Science** D.E. Alexander,Rhodes W. Fairbridge,1999-03-31 A strongly interdisciplinary and wide ranging survey of the environment of life on Earth the most authoritative and comprehensive source on environmental science to be collected together in a single volume Unique in presenting both a basic overview and detailed information on environmental topics Entries are arranged in an encyclopedic A Z format and contain extensive cross references to related entries as well as references to primary and secondary literature Over 370 separate entries prepared by 228 leading experts from 25 countries Incorporates 25 substantial in depth treatments of key areas and also includes biographies of leading scientists and environmentalists Contains a comprehensive subject index and a citation index of all referenced authors The Encyclopedia of Environmental Science is a multidisciplinary reference work which crosses many fields of interest and includes a wide variety of scholarly and authoritative articles on mankind s environment It provides information on the atmosphere hydrosphere biosphere and geosphere and is careful to focus on the connections between these realms and the Earth as a whole Taken as a whole the Encyclopedia surveys basic environmental science and applied areas of study and is drawn from the physical sciences life sciences and social sciences The 228 authors from 25 different countries many of whom are the leading authorities in their field include biologists ecologists geographers geologists political scientists soil scientists hydrologists climatologists and representatives of many other disciplines and academic specialties The work which is amply referenced and cross referenced consists of substantial

essays on major topics medium sized entries and short definitional entries The shorter entries include useful biographies of leading scientists and environmentalists The Encyclopedia will be invaluable to all readers interested in the environment of life on Earth its past present and future and its physical and social dimensions The text provides a source of well classified basic information as well as covering the leading theories and important debates in the environmental sciences In addition the book also includes assessments of the future prospects for the Earth s environment in the face of pollution population increases and the accelerating transformation of land air water and vegetational systems The Encyclopedia is unique in presenting both a basic overview and detailed information on environmental topics and is suitable for the general scientific reader and the specialized environmental scientist in academic institutions research laboratories or private practice Soils Khan Towhid Osman,2012-12-04 Aimed at taking the mystery out of soil science Soils Principles Properties and Management is a text for undergraduate graduate students who study soil as a natural resource Written in a reader friendly style with a host of examples figures and tables the book leads the reader from the basics of soil science through to complex situations covering such topics as the origin development and classification of soil physical chemical and biological properties of soil water and nutrient management management of problem soils wetland soils and forest soils soil degradation Further the ecological and agrological functions of soil are emphasized in the context of food security biodiversity and climate change The interactions between the environment and soil management are highlighted Soil is viewed as an ecosystem itself and as a part of larger terrestrial ecosystems **Water and Related Land Resource Systems** Y. Haimes,J. Kindler,2014-05-23 Water and Related Land Resource Systems covers IFAC Symposium that aims to address resource problem as well as methodologies and procedures for respective solutions Consists of 60 chapters the book is organized in sessions according to the technical program of the conference The book first tackles multiobjective planning in water and land resources which is followed by acquisition and analysis of surface water quality data The next part covers hierarchical water resource planning and management models while the succeeding part is about environmental and ecological aspects of water and land resources The fifth session discusses the impact of energy development on water and land resources Session VI covers modeling and systems identification problems in water resources and Session VII covers acquisition and analysis of hydrologic data The eighth session tackles ground water and its conjunctive use with surface water while the next session talks about sedimentation and land management The tenth session is about multiobjective planning in water and land resources Predicting and forecasting models in water resources is the topic of Session XI while Session XII discusses evaluation and calibration problem in water resource modeling The closing chapter covers water and land issues in urban areas Professionals whose work revolves around resource management and researchers whose work is in line with natural resource will find great information in this book that will be relevant in their trade *Improving water management in agriculture* Professor Jerry W. Knox,2024-06-11 Provides a comprehensive overview of the interventions available to optimise

water management in agriculture including rainwater harvesting and farm reservoirs Considers the development and application of alternative irrigation techniques which carry a reduced environmental impact such as solar powered irrigation Addresses the importance of diversification and collaboration in securing water resources for a rapidly growing population

The Irrigation Sector ,1999 India s irrigated agriculture sector has been basic to India s economic development and poverty alleviation One of India s major achievements is its rapid expansion of irrigation and drainage infrastructure However the major emphasis on development has been achieved at a cost The importance put on new construction has diverted attention away from the need to ensure the quality productivity and sustainability of the services Further a governmental subsidy based approach has been used and this has resulted in irrigation and drainage services which while enabling significantly higher productivity than from non irrigated lands are well below their potential The Irrigation Sector discusses directions for future growth the framework for reform and the reform agenda

Drainage of Irrigated Lands

Charles Frank Brown,1909

Highway Subdrainage Design Lyle K. Moulton,1980

Modernizing Irrigation

Management Daniel Renault,Thierry Facon,Robina Wahaj,Food and Agriculture Organization of the United Nations,2007 This publication describes the MASSCOTE methodology illustrated by several applications in Asia MASSCOTE is a comprehensive methodology for analysing the modernization of canal operation The aim is to enable experts to work together with users in determining improved processes for cost effective service oriented management It is based on previous tools and approaches widely used in Asia by FAO in its modernization training programme rapid appraisal procedures and benchmarking From diagnosis through the formulation of operational units and the planning of a service based on the vision agreed upon with the users MASSCOTE entails a systematic ten step mapping exercise The accompanying CD ROMs contain the full document in English excerpts in French a draft version in Arabic and Chinese training presentations and material and a number of documents and references on irrigation system operation and management System requirements PC with Intel Pentium r processor and Microsoft r Windows 95 98 200 Me NT XP 256 MB of RAM 50 MB of available hard disk space SuperVGA monitor 256 colours at 1024x768 Adobe Acrobat r Reader not included on CD ROM

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