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This informative new book takes an interdisciplinary look at agricultural and food production and how new engineering practices can be used to enhance production. With contributions from international experts from India, Russia, China, Serbia, and USA, this book presents a selection of chapters on some of these emerging practices, focusing on soil and water conservation and management; agricultural processing engineering; water quality and management; emerging agricultural crops; renewable energy use in agriculture; and applications of nanotechnology in agriculture. Document from the year 2020 in the subject Geography / Earth Science - Geology, Mineralogy, Soil Science, Egerton University (FACULTY OF ENGINEERING AND TECHNOLOGY), course: AGRICULTURAL ENGINEERING, language: English, abstract: Soil and Water Management is a text book intended for students and instructors in University or higher education for Certificate, Diploma and Degree students in a number of courses such as General Agriculture, Agricultural Education and Extension, Horticulture and other allied professions. The content of the text book has been presented in a coherent format, arranged in an explicit style that adheres to University and higher education curriculum. The textbook is partitioned into section A and section B with Review questions at the end to explicitly help the trainees comprehend the topics. This makes the book suitable for

easy reading. For the calculations, worked examples have been solved in a way of illustration and details are presented. Each chapter of the book has worked examples for the readers to expound on subject knowledge. Design and Build Safe, Efficient Systems for Irrigation and Water Supply Water Wells and Pumps is a comprehensive guide to the essential theory and design of ground water structures, wells/tube wells, and pumps, with particular emphasis on problem solving and meeting the requirements of developing nations. It features thorough, up-to-date knowledge of the science and technology of water wells and pumps as well as allied appliances and applications. This authoritative desk reference outlines the construction, operation, and maintenance of water wells for irrigation and water supply. It also presents the development and testing of tube wells as well as a variety of pumps, both location-specific. Using SI units exclusively, Water Wells and Pumps features: Coverage of a variety of pumps, including those using nonconventional, environmentally friendly means Examinations of ground water recharge methods, well rehabilitation, and animal-powered water lifts Techno-economic evaluation of projects on wells and pumps References and problems at the end of each chapter for research and educational use Solutions for all problems related to designing secure, reliable systems • Ground water resources development and utilization • Hydraulics of wells • Open wells • Tube wells and their designs • Development and testing of tube wells • Rehabilitation of sick and failed tube wells • Man- and animal-powered water lifts and positive displacement pumps • Variable displacement pumps and accessories • Centrifugal pumps • Deep well turbine and submersible pumps • Propeller, mixed flow, and jet pumps • Applications of nonconventional energy sources in pumping Research Paper (postgraduate) from the year 2019 in the subject Agrarian Studies, grade: 1.0, Egerton University, language: English, abstract: Irrigation Principles (Theory and Application) is a text book intended for students and instructors in University or higher education for Certificate, Diploma and Degree students in a number of courses such as Irrigation and Drainage, Agricultural Engineering, General Agriculture, Agricultural Education and Extension, Horticulture, Water Resources Engineering, applied irrigation engineering and other allied professions. The content of the text book has been presented in a lucid style, arranged in coherent sequence that adheres to University and higher education curriculum. This makes the book suitable for relaxed reading. For the calculations, worked examples have been solved in a way of illustration and details are presented. Each chapter is concluded with the examples and review questions for the readers to expound on subject knowledge. For the purpose of improvement, any criticism from students, trainers and practitioners will be thankfully received by the author. In this volume, the erosion and conservation measures discussed are, for the most part, those under unirrigated agriculture. The use of irrigation could cause significant changes in the growing seasons, and in the agricultural calendar, especially in the warmer climates where temperature is not a limiting factor. It is further noted that much of the material in this volume has been prepared with the developing countries of the so-called Third World in mind. In many of these countries there is a dearth of basic data, such as long-term hydrological records, detailed soil and topographic surveys, and experimental results for various types of erosion control measures. Some design procedures cannot be imitated or copied directly from those of the technologically more advanced countries. Consequently, emphasis will be placed, wherever possible, upon simple empirical methods of design, and approximate solutions within the limitations of the available data, technical possibilities, and financial resources of the Third World countries. Much of the numerical data and calculations will be presented in the metric system. Combines engineering practices for the solution of erosion and flood control, drainage and irrigational problems. Sufficient hydrologic information--precipitation, infiltration, evaporation, transpiration and runoff--is given as background for design problems discussed later. Makes readers aware that the environment must be considered in the design of soil and water facilities. Features many example problems, with detailed solutions, to facilitate learning. * A comprehensive and authoritative treatise on the subject authored by eminent scientists of international repute (revised and enlarged edition) * Presents latest information, concepts, technologies, and applications. * specially suited to meet the requirement of for readers in India and other developing countries. * Each topic is discussed with suitable

illustrations and solved examples. each chapter contains a list of pertinent reference and a set of problems. This book provides a professional text for undergraduate and graduate agricultural and biological engineering students interested in soil and water conservation in rural and urban areas. Subject matter includes all the engineering students and for others interested in soil and water conservation in rural and urban areas. Subject matter includes all the engineering phases of soil and urban areas. The authors assume that the student has a basic knowledge of calculus, surveying, mechanics, hydraulics, soils, and computers. The analytical approach is emphasized and is supplemented by sufficient field data to illustrate practical applications. The text emphasizes engineering principles in the areas of erosion, drainage, irrigation, and water resources. Tables, charts, and diagrams have been included to provide practicing engineers with readily usable information as well. Many examples and problems are included to emphasize the design principles and to facilitate an understanding of the subject matter. Computer models and software program sources have been described where applicable in the text as well as access to some computer programs and models. In many instances, students will find using a spreadsheet advantageous for reviewing example problems and solving homework problems. Streamlined to facilitate student understanding, this second edition, containing the latest techniques and methodologies and some new problems, continues to provide a comprehensive treatment of hydrology of watersheds, soil erosion problems, design and installation of soil conservation practices and structures, hydrologic and sediment yield models, watershed management and water harvesting. It also deals with the special requirements of management of agricultural and forested watersheds. This book is designed for undergraduate students of agricultural engineering for courses in hydrology, and soil and water conservation engineering. It will also be of considerable value to students of agriculture, soil science, forestry, and civil engineering. KEY FEATURES Emphasises fundamentals using numerous illustrations to help students visualise different phenomena Offers lucid presentation of field practices Presents the analysis and design of basic hydraulic structures Devotes an entire chapter to watershed management Provides numerous solved design problems and exercise problems to develop a clear understanding of the theory Gives theoretical questions, and objective type questions with answers to test the students' understanding. Conservation agriculture is a sustainable production model that not only optimizes crop yields, but also reaps economic and environmental benefits as well. The adoption of successful conservation agriculture methods has resulted in energy savings, higher organic matter content and biotic activity in soil, increased crop-water availability and thus resilience to drought, improved recharge of aquifers, less erosion, and reduced impacts from the weather associated with climate change in general. Agricultural Impacts of Climate Change examines several important aspects of crop production, such as climate change, soil management, farm machinery, and different methods for sustainable conservation agriculture. It presents spatial distribution of a daily, monthly and annual precipitation concentration indices, Diffuse Reflectance Fourier Transform Infrared Spectroscopy for analyzing the organic matter in soil, and adaptation strategies for climate-related plant disease scenarios. It also discusses solar energy-based greenhouse modeling, precision farming using remote sensing and GIS, and various types of machinery used for conservation agriculture. Features: Examines the effects of climate change on agriculture and the related strategies for mitigation through practical, real-world examples Explores innovative on-farm technology options to increase system efficiency resulting in improved water usage Presents examples of precision farming using climate-resilient technologies The book is designed to serve as a textbook for graduate and undergraduate courses on soil and water conservation engineering for students of agricultural engineering, civil engineering, environmental engineering and related disciplines. The book presents the basics of soil and water erosion, and describes the measures to control erosion, focusing on structures to prevent and control erosion. The chapters dedicated to erosion control structures provide a detailed view of each structural construction, covering the function, design and elements of each type of structure. Some common type of structures covered in the book are terrace, bunds, vegetated waterways, and gully control structures, including spillways. The book also covers wind erosion and control structures to prevent wind erosion. Each chapter includes

pedagogical elements such as examples, practice questions, and multiple-choice-type questions to improve understanding and aid in self-study. Besides serving as a textbook university coursework, the book can also serve as a supplementary or primary text for professional development courses practicing engineers engaged in soil and water conservation or watershed management. The book will also serve as a reference for professionals, environmental consultants, and policy makers engaged in soil and water conservation related fields. Streamlined to facilitate student understanding, this second edition, containing the latest techniques and methodologies and some new problems, continues to provide a comprehensive treatment of hydrology of watersheds, soil erosion problems, design and installation of soil conservation practices and structures, hydrologic and sediment yield models, watershed management and water harvesting. It also deals with the special requirements of management of agricultural and forested watersheds. This book is designed for undergraduate students of agricultural engineering for courses in hydrology, and soil and water conservation engineering. It will also be of considerable value to students of agriculture, soil science, forestry, and civil engineering. KEY FEATURES Emphasises fundamentals using numerous illustrations to help students visualise different phenomena Offers lucid presentation of field practices Presents the analysis and design of basic hydraulic structures Devotes an entire chapter to watershed management Provides numerous solved design problems and exercise problems to develop a clear understanding of the theory Gives theoretical questions, and objective type questions with answers to test the students' understanding. PART-I Irrigation and Drainage : General Information on Water Resources * Soil-Water-Plant Relationship * Open Channel Flow * Conveyance and Measurement of Irrigation Water * Consumptive use and Irrigation Scheduling * Land Grading * Irrigation Methods * Ground Water Development * Water Lifting Devices * Drainage of Agricultural Lands * Answer. PART- II : HYDROLOGY : Introduction * Rainfall Abstractions * Run-off * Run-off Estimation * Stream Flow Measurement * Hydrograph * Flood Routing * Answer. PART- III : SOIL & WATER CONSERVATION : Soil Erosion Principle * Gully Erosion * Stream Bank Erosion * Wind Erosion * Erosivity and Erodibility * Land use Capability Classification * Agronomical Measures to Control Soil Erosion * Bunding * Terracing * Grassed Waterways * Soil Loss Estimation * Grass Land Farming * Water Harvesting * Farm Pond * Earth Dam * Retaining Wall and Culvert * Answer.

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