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KURMA DARI GURUN KE TROPIS TRUBUS SWADAYA Kurma tidak lagi identik dengan tanaman gurun. Kurma tropis, kultivar KL-1 berbuah umur 3 tahun asal perbanyak biji. Produktivitas pada panen perdana 100 kg per pohon. Seiring pertambahan umur, produksi meningkat. Pohon kurma berumur 7 tahun menghasilkan 250 kg buah per tahun. Di Thailand Phoenix dactylifera dibudidayakan di dataran rendah seperti di Pathumthani, Suphanburi, Nakonratchasima, hingga dataran tinggi Chiangmai, Di berbagai ketinggian tempat itu terbukti KL-1 dapat berbuah optimal. KL-1 juga berpotensi berbuah pada umur 3 tahun di Indonesia yang beriklim hampir sama dengan negeri Gajah Putih itu. Kurma memiliki segudang keunggulan, yakni perawatan mudah, produksi tinggi, daya simpan buah lama, dan buah dapat dikonsumsi segar maupun kering. Buah kurma pun dapat diolah menjadi beragam menu nan lezat, berkhasiat untuk kesehatan, dan harga jual tinggi. Pada 2015 harga kurma segar di tingkat pekebun berkisar 500--600 baht setara Rp200.000-Rp240.000 per kilogram. Dengan asumsi panen 100 kg per pohon, omzet pekebun minimal Rp20-juta per musim per pohon. Bayangkan jika pekebun memiliki 100 pohon, omzet melambung hingga Rp2-miliar per tahun. Sungguh peluang budidaya yang sangat menggiurkan.***

Soil-plant-water Relationships 1964

Soil and water conservation engineering 1996

Soiless Culture Management Meier Schwarz 2012-12-06 Hydroponics, the method of growing plants without soil, presents a feasible alternative to conventional farming in areas which are short on water supply and limited in agricultural soil. This book will serve as an indispensable guide for students in the agriculture sciences, for agriculture instructors and soiless-culture farmers. It provides up-to-date information on optimal plant nutrition, deficiencies and toxicities of nutrients, plant growth media, optimal root environment, environmental control, carbon dioxide requirements, saline conditions and use of sewage in soiless culture. Other topics include economic aspects of hydroponics, new growth methods and an outlook for the future.

Panen Cabai Sepanjang Tahun Ir. Wahyudi

Vegetable Seed Production Raymond A. T. George 1985 Behandelng van de organisatie van zaadkwekerijen; principes van zaadproduktie; teelt; oogst en behandeling; bewaring; kwaliteitscontrole en afzet. Verder wordt gedetailleerd ingegaan op de volgende plantenfamilies: Chenopodiaceae, Compositae, Cruciferae, Cucurbitaceae, Leguminosae, Solanaceae, Umbelliferae, Alliaceae, Graminae,

JAMBU AIR EKSKLUSIF TRUBUS SWADAYA 2014 Inilah varietas unggul jambu air teranyar. Deli hijau atau lebih dikenal dengan madu deli hijau (MDH) memiliki tiga ter- yaitu termanis, termudah berbuah, dan terlebat buahnya. Syaratnya penanaman di pot dan perlakuan intensif. MDH panen perdana pada usia 1,5 tahun pascatanam dengan produktivitas rata-rata 6 kg/pohon/tahun. Di tahun keempat produktivitas melonjak hingga 30 kg/pohon/tahun. Simak informasi lengkap budidaya intensif MDH dari pekebun berpengalaman. Ragam varietas jambu air unggul lain dan teknik melebatkan buah ala pehobi dan pekebun berpengalaman juga disajikan dalam buku ini lengkap dengan ilustrasi menarik sebagai penjelas. ***

Berkebun Stroberi Secara Komersil

Archie 3000 Archie Superstars 2019-03-19 ARCHIE 3000 is the complete collection featuring the classic series. This is presented in the new higher-end format of Archie Comics Presents, which offers 200+ pages at a value while taking a design cue from successful all-ages graphic novels. Travel to the 31st Century with Archie and his friends! In the year 3000, Riverdale is home to hoverboards, intergalactic travel, alien life and everyone's favorite space case, Archie! Follow the gang as they encounter detention robots, teleporters, wacky fashion trends and much more. Will the teens of the future get in as much trouble as the ones from our time?

Systems approaches for agricultural development F.W.T Penning de Vries 2012-12-06 Agriculture is changing rapidly all over the world. Intensification, diversification, optimizing scarce resources, integrated pest management, sustainability and climate change are key issues for agricultural institutes. The best solutions will be found by integrating disciplines. Organized thinking about future farming requires forecasting of the implications of alternative ways to farm and to develop agriculture. Systems thinking and systems simulation are indispensable tools for such integration and extrapolation. About 150 scientists and senior research leaders from all over the world participated in the symposium 'Systems Approaches for Agricultural Development' to discuss these issues. The symposium reviewed the status of systems research and modeling in agriculture, with special reference to evaluating their efficacy and efficiency for achieving research goals, and to their application in developing countries, promoted international cooperation in modeling, and increased awareness of systems research and simulation. This book comprises the papers on the technical subjects. Well informed authors describe and illustrate how systems research was used to improve agricultural production systems of all continents and in diverse environments.

Irrigation and Drainage Engineering Peter Waller 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.

Bertanam Sayuran Hidroponik Ala Paktani Hydrofarm Heru Agus Hendra (Paktani Hydrofarm) 2014-01-09 Lain dulu lain sekarang. Dahulu, bercocok tanam mutlak membutuhkan tanah, sehingga bercocok tanam seperti sayuran pun membutuhkan lahan cukup luas. Kehadiran hidroponik menjawab permasalahan pada pertanian konvensional. Dengan hidroponik, seseorang bisa bercocok tanam tanpa perlu tanah dan lahan yang luas. Pantas jika saat ini hidroponik begitu diminati banyak orang. Jadi apa keuntungan bertanam sayur secara hidroponik? Jawabannya ada di dalam buku ini. ----- Chapter 1 dari 5, buku "Bertanam Sayuran Hidroponik ala Paktani Hydrofarm" terbitan Agromedia Pustaka Meta description: Buku belajar bertanam sayuran secara hidroponik bareng Paktani hydrofarm Meta tag: sayuran, bertanam sayuran, hidroponik, pemupukan hidroponik, kendala dan solusi, panen sayur, wick system, NFT, DFT. sistem hidroponik, urban farming, merakit hidroponik, pemupukan, pemeliharaan sayuran, Paktani, hydrofarm. -AgroMedia-

The Nature and Properties of Soils Nyle C Brady 2013-07-29 For Introduction to Soils or Fundamentals of Soil Science courses. Also for courses in Soil Fertility, Forest Soils, Soil Management, Land Resources, Earth Science, and Soil Geography. Developed for Introduction to Soils or Soil Science courses, The Nature and Properties of Soils, 14e can be used in courses such as Soil Fertility, Land Resources, Earth Science and Soil Geography. Now in its 14th edition, this text is designed to help make students study of soils a fascinating and intellectually satisfying experience. Written for both majors and non-majors, this text highlights the many interactions between the soil and other components of forest, range, agricultural, wetland and constructed ecosystems.

Yearbook of the Netherlands East Indies Dutch East Indies. Departement van Landbouw, Nijverheid en Handel 1920

Guidelines for Predicting Crop Water Requirements J. Doorenbos 1975 Calculation of crop evapotranspiration; Selection of crop coefficient; Calculation of field irrigation requirements.

Fertilizers and Environment Claudio Rodriguez Barrueco 2012-12-06 Food production remains the highest agricultural priority, subject to the constraint that it be done in harmony with nature, or at least with minimum environmental pollution. The amount of fertilizer applied can be controlled using modern application techniques, including soil and crop management, guaranteeing higher economic profit and lower environmental cost. It is in such a context that the present book addresses the efficient and rational use of mineral and organic fertilizers while preserving environmental quality. The book discusses the impact on surface and groundwaters, soils and crops, and experience of nitrate leaching, denitrification, ammonia volatilization, heavy metal pollution, agricultural and urban waste management, and international and national legislation. Audience: Agronomists, environmentalists, soil and food chemists, ecologists, policy makers, and managers in the fertilizer industry concerned with the trend of public opinion.

Bertanam Cabai di Lahan dan Pot Setiadi Sampai saat ini, cabai masih menjadi prioritas utama petani dalam bercocok tanam. Cabai memang tergolong dalam tanaman dengan tingkat adaptasi lingkungan yang tinggi sehingga dapat tumbuh di berbagai kondisi. Akan tetapi, untuk memperoleh hasil yang maksimal, diperlukan cara bertanam yang baik dan perawatan intensif terhadap tanaman cabai. Dalam buku ini dijelaskan mengenai cara bertanam untuk beberapa jenis cabai, yaitu cabai merah besar, cabai merah keriting, cabai Taiwan, cabai paprika, dan cabai dalam pot. Penjelasan dalam buku ini tidak hanya berdasarkan pada teori praktis, melainkan juga dilengkapi dengan contoh-contoh pengalaman petani di

beberapa daerah sentra cabai di Indonesia. Daerah tersebut di antaranya Patrol (Indramayu), Brebes, Kudus, Cianjur, dan Bobotsari (Purbalingga). Selain itu, dalam buku ini juga dijelaskan sekilas tentang penanaman cabai secara tumpang sari dengan bawang merah. PENEBAR SWADAYA

Plant Development and Biotechnology Robert N. Trigiano 2004-07-28 Biotechnology revolutionized traditional plant breeding programs. This rapid change produced new discussions on techniques and opportunities for commerce, as well as a fear of the unknown. *Plant Development and Biotechnology* addresses the major issues of the field, with chapters on broad topics written by specialists. The book applies an informal style that addresses the major aspects of development and biotechnology with minimal references, without sacrificing information or accuracy. Divided into five primary parts, this volume explores how the field emerged from its early theoretical base to the technical discipline of today. It also covers progress being made with genetically engineered plants, providing a snapshot of the field's controversial present. Part III discusses methods for preparing media, creating solutions and dilutions, and accomplishing sterile culture work. It investigates common methods for visualizing and documenting studies, and quantifying responses of tissue culture in research. Part IV delivers the essential foundation of plant tissue culture, introducing the three types of commonly used culture regeneration systems. Part V integrates propagation techniques with other methodologies for the modification and manipulation of germplasm. Part VI concludes with special sections. Subjects include in vitro plant pathology, recent research into genetic and phenotypic variation, the mechanics of commercial plant production, and the importance of clean cultures and problems associated with maintaining in vitro cultures. The final chapter analyzes entrepreneurship in the field and outlines the do's and don'ts to consider when launching an enterprise.

6 Teknik Hidroponik Ir. Jimmy Halim Buku ini disusun untuk memberikan gambaran mengenai 6 teknik hidroponik yang praktis dan mudah diaplikasikan. Pembahasannya dimulai dari pengenalan teknik, prinsip kerja, jenis tanaman yang cocok, perakitan instalasi, ragam pilihan media tanam, dan tips pemeliharaan dari setiap teknik. Ingin tahu teknik mana yang sesuai dengan keinginan Anda, miliki buku ini segera. Penebar Swadaya

Agar adenium tampil cantik 2005

Water Quality for Agriculture R. S. Ayers 1985 Richtlijnen voor de werker in het veld om problemen te ondervangen ten aanzien van de waterkwaliteit voor irrigatie-doeleinden. Tenslotte worden praktijkervaringen uit diverse gebieden vermeld

Buah Naga

Methods of Wood Chemistry Bertie Lee Browning 1967

Land And Water Management Engineering V. V. N. Murty 2008-01-01

Prosiding Seminar Nasional Sumberdaya Lahan dan Lingkungan Pertanian, Bogor, 7-8 November 2007 2008 Rural land use related to land suitability for agriculture in Indonesia.

Handbook on Pressurized Irrigation Techniques Andreas Phocaidis 2007 Increasing the efficiency of water use and enhancing agricultural water productivity at all levels of the production chains are becoming priorities in a growing number of countries. In particular, shifting to modern on-farm irrigation practices can contribute to a substantial increase in both water use efficiency and water productivity. The

objective of this handbook is to provide a practical guide on the use of pressurised irrigation techniques to farmers, irrigation technicians, and extension workers in the field. In this second edition, the handbook has been considerably revised, including new chapters on low-cost drip irrigation and pipe distribution systems for smallholders. (Also available in French)

CABAI Tim Penulis Agriflo Ternyata ada cabai terpedas atau cabai terkecil di dunia. Ada pula cabai terberat sedunia dan dinobatkan dalam buku Guinness World Record. Masih banyak lagi fakta unik di balik si pedas ini. Memang tidak dipungkiri, cabai sudah sejak lama dikenal oleh masyarakat dunia dan kini menjadi salah satu komoditas yang banyak dicari. Dalam catatan sejarah perjalanannya di dunia, cabai tidak sekadar sebagai bumbu masak, tetapi ternyata juga digunakan sebagai herbal. Kini, cabai menjadi bahan kuliner, baik di Indonesia maupun manca negara. Tentu, hal ini menjadikannya sebagai komoditas yang bernilai ekonomi tinggi. Ingin tahu segala hal yang menarik tentang cabai? Buku ini menyajikan sejarah penyebaran cabai di dunia, jenis-jenis cabai, sekilas budi daya, prospek bisnis, hingga bahasan tentang potret pertanian cabai di manca negara. Sajian semakin berbeda dengan buku lain karena juga dilengkapi fakta unik seputar cabai, opini para pakar tentang agribisnis cabai, hingga kisah sukses praktisi. Popularitas dan konsumsi cabai sangat besar sehingga banyak petani yang mengusahakannya. Tak heran bila cabai menjadi komoditas penting dalam perdagangan global. Prof. Dr. Ir. E. Gumbira Sa'id, MADev, Guru Besar Departemen Teknologi Industri Pertanian Fakultas Teknologi Pertanian IPB dan Senior Advisor Program Pascasarjana Manajemen dan Bisnis, SPS-IPB Menanam cabai saat musim hujan berarti melawan arus. Banyak faktor yang harus dipertimbangkan agar produktivitas tanaman tetap bisa optimal. Ir. Final Prajanta, Pakar dan Praktisi Cabai Pertumbuhan dan produktivitas cabai bisa optimal, asalkan mengikuti pola budi daya yang baik dan benar. Agus Yana, petani cabai di Cianjur, Jawa Barat SALAM AGRIFLO

Reclamation Handbook United States. Bureau of Reclamation 1942

Fundamentals of Wireless Sensor Networks Walteneagus Dargie 2010-11-05 In this book, the authors describe the fundamental concepts and practical aspects of wireless sensor networks. The book provides a comprehensive view to this rapidly evolving field, including its many novel applications, ranging from protecting civil infrastructure to pervasive health monitoring. Using detailed examples and illustrations, this book provides an inside track on the current state of the technology. The book is divided into three parts. In Part I, several node architectures, applications and operating systems are discussed. In Part II, the basic architectural frameworks, including the key building blocks required for constructing large-scale, energy-efficient sensor networks are presented. In Part III, the challenges and approaches pertaining to local and global management strategies are presented - this includes topics on power management, sensor node localization, time synchronization, and security. At the end of each chapter, the authors provide practical exercises to help students strengthen their grip on the subject. There are more than 200 exercises altogether. Key Features: Offers a comprehensive introduction to the theoretical and practical concepts pertaining to wireless sensor networks Explains the constraints and challenges of wireless sensor network design; and discusses the most promising solutions Provides an in-depth treatment of the most critical technologies for sensor network communications, power management, security, and programming Reviews the latest research results in sensor network design, and demonstrates how the individual components fit together to build complex sensing systems for a variety of application scenarios Includes an accompanying website containing solutions to exercises (http://www.wiley.com/go/dargie_fundamentals) This book serves as an introductory text to the field of wireless sensor networks at both graduate and advanced undergraduate level, but it will also appeal to researchers and practitioners wishing to learn about sensor network technologies and their application areas, including environmental monitoring, protection of civil infrastructure, health care, precision

agriculture, traffic control, and homeland security.

Bacterial Metabolites in Sustainable Agroecosystem Dinesh K. Maheshwari 2015-11-10 There has been a resurgence of interest in environmental friendly, sustainable and organic cultural practices that warrants high yield and quality in agricultural crops. To enhance sustainable agricultural production and alleviate food scarcity, spoor of majority of microorganisms, especially plant growth and health promoting bacteria of eminent characteristics that allow them for exploitation in agro-ecosystem. Plant growth promoting rhizobacteria are the soil bacteria inhabiting around/on the root surface and are directly or indirectly involved in promoting plant growth and development via production and secretion of various regulatory chemicals in the vicinity of rhizosphere. Among various beneficial bacteria mediated mechanisms include direct production of phytohormones and biosurfactants experiencing quest of research and concept up gradation that can built emerging paradigm (agriculture model). Research on bacteria-mediated phytohormones is crucially important, provides key understanding of the plant growth and development. Various genera including PGPR group of bacteria are potential source of plant growth regulators. Application of such organism allow plants to survive under abiotic and biotic stress conditions besides govern phytohormone mediated immune response and manage to regulate hormones. Such group of bacteria also produce another important metabolite i.e. biosurfactants which are involved in many important functions to bacteria itself as well as for the plants and their ecosystem. Biosurfactants may alter nutrient availability, endogenous metabolites such as antibiotics production, root colonization imparting protection from phytopathogens besides eradicating soil contaminants and other pollutants. The role and activities of surfactants produced by bacteria are multifarious in nature. Thus, bacterial phytohormones and biosurfactants are identified as effector molecules in plant- microbe interactions, in pathogenesis and phyto-stimulation which can either be beneficial for the bacteria itself or for the crops. This book highlights current applications and research on bacterial hormones and surfactants to provide a timely overview. The chapters have been contributed by subject experts from around the world and include topics of varied importance which include phytohormones production by rhizospheric and endophytic bacteria, their role in rhizosphere competence, plant growth regulation, bioremediation, biosurfactants as antibiofilm agents and other aspects. This major new work represents a valuable source of information to all those scientists interested in microbial technology with respect to the microbial innovative products and applications towards sustainable agroecosystem.

Breeding Vegetable Crops Mark Bassett 1986 This text provides up-to-date treatment for the genetic improvement of 14 vegetable crops. Each crop has its own different requirements, opportunities and challenges. It should be of interest to advanced students who have already had training in genetics and plant breeding.

Inovasi Teknologi Agronomi Di Lahan Pasir Pantai Prof. Dr. Ir. Didik Indradewa, Dip.Agr.St. 2021-08-01 Daerah Istimewa Yogyakarta memang istimewa dengan kawasan pantai selatan sepanjang lebih kurang 110 km dan lebar sekitar 1-1,5 km. Dari segi kualitas lahan untuk budidaya pertanian, kawasan pesisir selatan Yogyakarta ini merupakan lahan marginal berupa lahan pasir pantai dengan kelas kesesuaian lahan untuk tanaman pangan dan sayuran adalah tidak sesuai (N) dan sesuai marginal (S3). Buku yang ditulis oleh tim dosen Departemen Budidaya Pertanian ini dapat memberikan pengetahuan dan berbagi pengalaman dalam mengoptimalkan lahan marginal pasir pantai untuk produksi pertanian. Pentingnya pengembangan pertanian di lahan pasir pantai Yogyakarta juga menjadi salah satu alternatif solusi masalah alih fungsi lahan pertanian akibat pembangunan yang ada. Oleh karena itu perluasan areal pertanian ke lahan pasir pantai di kawasan pesisir sangat dimungkinkan untuk tetap mengantisipasi lahan pertanian yang semakin sempit. Buku ini juga menjelaskan beberapa inovasi teknologi Agronomi yang digunakan pada budidaya tanaman pangan dan sayuran, yaitu cabe, lidah

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buaya, kedelai dan wijen. Kendala kualitas tanah yang rendah dan lingkungan dengan suhu tinggi dan angin kencang bergaram merupakan iklim yang kurang menguntungkan untuk pertumbuhan tanaman. Inovasi Teknologi Agronomi Di Lahan Pasir Pantai ini diterbitkan oleh Penerbit Deepublish dan tersedia juga dalam versi cetak.

Soil Management H. W. Dalzell 1987 A manual on compost making. Described are: principles of composting, materials for composting, practical composting processes, uses of composts, environmental aspects, economic and social aspects, education and training of farmers and extension workers

Heavy Metal Pollution in Soils of Japan Kakuzō Kitagishi 1981

Agricultural Economics Research 1971

Landasan Teoritis dan Penerapan Genetika serta Rekayasa Lingkungan untuk Peningkatan Produksi Tanaman Dewan Guru Besar IPB 2021-06-23 Kami berharap bahwa berbagai temuan hasil riset yang disajikan dalam buku ini dapat dikembangkan lebih lanjut dalam berbagai penelitian di masa yang akan datang. Adapun hasil-hasil penelitian yang telah siap diimplementasikan, baik dalam dunia industri, rumah tangga, ataupun dalam perumusan kebijakan publik kami harapkan dapat menyumbangkan nilai maslahat yang besar bagi masyarakat luas.

Physical Geology Nicholas K. Coch 1991

Keanekaragaman Hayati F. Sufah Keanekaragaman Hayati PENULIS: F. Sufah Ukuran : 14 x 21 cm ISBN : 978-623-270-405-3 Terbit : Juli 2019 www.guepedia.com Sinopsis: Keanekaragaman hayati atau biodiversitas adalah suatu istilah pembahasan yang mencakup semua bentuk kehidupan, yang secara ilmiah dapat dikelompokkan menurut skala organisasi biologisnya, yaitu mencakup gen, spesies tumbuhan, hewan, dan mikroorganisme serta ekosistem dan proses-proses ekologi dimana bentuk kehidupan ini merupakan bagiannya. Keanekaragaman hayati merupakan sumber kehidupan, penghidupan dan kelangsungan hidup bagi umat manusia, karena potensial sebagai sumber pangan, papan, sandang, obat-obatan serta kebutuhan hidup yang lain dan sumber ilmu pengetahuan dan teknologi serta untuk mengembangkan sosial budaya umat manusia. Pemanfaatan keanekaragaman hayati bagi masyarakat ini harus dilakukan secara berkelanjutan yaitu manfaat yang tidak hanya untuk generasi sekarang tetapi juga untuk generasi yang akan datang. Oleh karena itu, pelestarian keanekaragaman hayati yang ada di sekitar harus dilakukan agar dapat dimanfaatkan oleh generasi yang akan datang. Dengan demikian, buku keanekaragaman hayati ini dapat membantu untuk mengetahui dan mengaplikasikan pemanfaatan dan cara melestarikan keanekaragaman hayati dengan teori yang komprehensif yang terdapat di buku ini. www.guepedia.com Email : guepedia@gmail.com WA di 081287602508 Happy shopping & reading Enjoy your day, guys

Trickle Irrigation for Crop Production F.S. Nakayama 2012-12-02 An entirely new agricultural technology, trickle or drip irrigation, began its development in the early 1960's. Initial progress was sporadic even though the advantages in water management with trickle systems were recognized. Operators were reluctant to use the system because of its high initial cost and questions regarding its reliability. Once the main problems were isolated and solutions developed to make the system reliable, rapid acceptance by the growers resulted. Today, trickle irrigation is being used on crops that were earlier considered to be uneconomical. This multi-purpose handbook brings together current knowledge from various engineering and scientific disciplines (crop, hydraulic, irrigation and soil sciences) needed for understanding the trickle irrigation system for crop production. The two dozen contributors are

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experts on the various subjects, which range from the basic to the more practical aspects of trickle irrigation. Major topics include design, operation and management - with individual chapters covering historical development, emitter construction and clogging, system design, water and salt distribution, automation, water treatment, irrigation scheduling, maintenance, fertilization and salinity. The book greatly expands the scope of research papers, reviews, extension bulletins, and updates earlier text with new information on trickle systems. A multi-disciplinary approach has been taken on a multi-faceted subject. The material contained in the book is the most comprehensive yet developed on the topic. Illustrative sample problems and solutions provide field operators and extension personnel with information needed to install and maintain trickle systems. As it is up-to-date, it is useful as a teaching and reference source for students, manufacturers and irrigation system operators as well as irrigation and crop specialists, and consultants.

Soil and Water Daniel Hillel 2012-12-02 Soil and Water: Physical Principles and Processes describes the physical principles governing the soil-water system and particularly the sequence of processes constituting the cycle of water in the field. Organized into two parts, with a total of 11 chapters, this book first discusses the basic physical properties of both soil and water. Some chapters deal with the state of water in soil and flow of water in saturated and unsaturated soil. The second part focuses on the aspects of field water cycle, starting from the entry of water into soil to the redistribution of soil moisture. It also describes the groundwater drainage, evaporation from bare-surface soils, uptake of soil water by plants, and the water and energy balance in the field. This work is meant for students and professional workers in soil physics and other related disciplines who need or might be interested in a fundamental and up-to-date exposition of soil physics.