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Abstrak Hasil Penelitian Dan Karya Ilmiah Universitas Padjadjaran-2000

Aplikasi Excel 2007 dalam Bidang Teknik Mesin + CD-

Rumah Ekonomi Rumah Budaya-M. Chatib Basri 2012-10-12 “Pengaruh globalisasi dalam kebijakan perdagangan tentu tidak bisa kita hindari. Kita tidak bisa menutup diri dari globalisasi. Investasi dan aliran produk luar negeri tidak mungkin kita hindari. Tapi yang paling penting, kita harus berani melindungi pasar dalam negeri dari serbuan produk impor. Tulisan akademisi dan pelaku industri dalam buku ini memaparkan secara gamblang kebutuhan tersebut.” -- Sofjan Wanandi, Ketua Umum APINDO “Hedge Funds Managers di London lebih suka menggunakan terminologi CIVITS (China, India, Vietnam, Indonesia, Turkey and South Africa) daripada BRIC. CIVITS economics tentu saja lebih menarik dalam memainkan peran sebagai ‘Global Growth Engine’. Dewasa ini Indonesia memang menjadi semakin menarik dan besar perannya. Oleh sebab itu Indonesia akan ‘diserbu’ oleh FDI maupun barang impor. Di sinilah kebijakan Kementerian Perdagangan dalam berbagai bentuk ‘smart protections’ sangat relevan dan pantas didukung.” -- Sudhamek AWS, CEO Garudafood “Pengaturan tata niaga komoditas strategis dan perlunya perlindungan dalam bersaing dengan produk luar merupakan kebijakan Kementerian Perdagangan yang perlu dicatat dalam kurun waktu 2004–2011. Tepat sekali ketika penulis dalam buku ini meminta pemerintah melanjutkan kebijakan tersebut.” -- Heinrich Napitupulu, Dirut Perusahaan Perdagangan Indonesia “Impor pangan selalu menjadi polemik. Padahal, kebijakan perdagangan tidak berdiri sendiri. Langkah apa pun yang dilakukan Kemendag, selama tidak dilakukan pembenahan di sektor pertanian, Indonesia selamanya akan mengalami defisit. Itulah yang harus dipahami tentang ketahanan pangan.” -- Beny Kusbini, Dewan Hortikultura Nasional “Pemerintah kota Solo tidak ingin beralasan atas nama wewenang negara lantas main obrak-abrik tanpa rasa kemanusiaan. Saya ingin ngewongke (memanusiakan) para PKL itu sehingga mereka bersedia pindah dengan sukacita, karena mereka itu punya hati yang jika kita sentuh secara santun dengan tujuan kebaikan bersama, mereka pasti mengerti.” -- Joko Widodo, Wali Kota Solo masa jabatan 2005-2012, Gubernur DKI Jakarta periode 2012-2017 “Kebijakan revitalisasi pasar tradisional yang telah dimulai Kementerian Perdagangan sejak tahun 2004 hingga sekarang telah menempatkan pasar sebagai rumah ekonomi dan rumah budaya. Pasar tidak hanya dipandang agar berdaya guna secara ekonomi, tetapi juga memberikan pelestarian pada salah satu budaya dalam masyarakat, yaitu kekhasan perekonomian ala pasar tradisional.” -- Wiharto, Sekretaris Pasamuhan Pedagang Pasar Tradisional Surakarta

Pemeriksaan Kualitas dan Keamanan Susu dan Hasil Olahannya Edisi Kedua-Mirnawati B Sudarwanto 2021-04-06 Buku ini merupakan

hasil proses perbaikan dari edisi sebelumnya. Salah satunya dalam bentuk pengurangan beberapa uji yang tidak banyak digunakan lagi dan bentuk penambahan terutama dalam hal pemeriksaan mastitis subklinis. Beberapa topik seperti Pengambilan Contoh Susu, Analisis Susu dan Produk Olahannya, Pemeriksaan Mikrobiologik, Pemeriksaan Pemalsuan Susu hingga Cara Mendiagnosis Mastitis Subklinik juga dibahas dalam buku ini. Buku ini ditujukan untuk mahasiswa, terutama mahasiswa kedokteran hewan dan peternakan, begitu juga teman sejawat, serta dapat digunakan untuk pedoman di laboratorium pengujian susu di KUD, KPS, IPS maupun Balai Penelitian lainnya.

Applied Hydrology-Ray K. Linsley 1975

Physical and Dynamical Meteorology-David Brunt 2011-09-22 First published in 1934, and then in a second edition in 1939, this book reviews theoretical meteorology at the time. Where theory failed to explain phenomena, the author limited himself to a description of the phenomena and an indication of such theory as was felt to be helpful.

Prosiding Seminar Nasional Pengelolaan Ekosistem Pantai dan Pulau-Pulau Kecil dalam Konteks Negara Kepulauan, Yogyakarta, 2 September 2000- 2000 Management of coastal ecology and small islands in Indonesia.

REKAYASA HIDROLOGI-Prof. Dr. Ir. Lily Montarcih Limantara, M.Sc. Buku Rekayasa Hidrologi Edisi Revisi ini merupakan buku ajar (wajib) yang digunakan di Jurusan Teknik Pengairan Fakultas Teknik, Universitas Brawijaya. Buku ini merupakan buku wajib untuk mahasiswa S-1 semester 1 dan 2, mahasiswa S-2 Teknik Sumber Daya Air, dan mahasiswa S-3 Teknik Sumber Daya Air. Buku ini dibagi menjadi 2 pokok utama, sebagai berikut: • Hidrologi Teknik Dasar yang meliputi pokok bahasan: lklim dan Meteorologi; Infiltrasi dan Perkolasi; Evapotranspirasi; Hujan Daerah; Analisis Frekuensi; Pengukuran Debit Sungai; dan Analisis Debit Andalan. Masing-masing pokok bahasan dilengkapi dengan contoh soal, latihan soal, dan referensi.

Aku ingin tahu Sains 20 - Air dan Hidrosfer-Wong Comic 2013-06-27 "Air merupakan salah satu sumber energi bagi kehidupan makhluk hidup. Air juga bagian dari ekosistem makhluk hidup. Sedangkan Hidrosfer adalah lapisan air yang ada di Bumi. Lalu apa saja bagian Hidrosfer tersebut? Apa manfaat mengetahuinya?"

Sensor Ofet Berbasis Film Tipis untuk Deteksi Gas Beracun-Dr. Sujarwata, Drs., M.T. 2015-10-01 Isi buku ini sengaja disajikan secara praktis dan lengkap sehingga dapat membantu para siswa, mahasiswa, dosen, guru serta para praktisi industri. Penekanan dan cakupan bidang yang dibahas dalam buku ini sangat membantu dan berperan sebagai sumbangsih pemikiran dalam mendukung pemecahan permasalahan yang muncul pada transistor medan listrik berbasis film tipis, karakterisasi dan aplikasi dalam bidang sensor gas beracun. Oleh karena itu, buku ini disusun secara integratif antar disiplin ilmu yaitu bahan semikonduktor, metode deposisi film tipis, litografi, karakterisasi, elektronika serta aplikasi dalam deteksi gas beracun, sehingga skill yang diperlukan terkait satu dengan lainnya.

Elementary Hydrology-Vijay P. Singh 1992 Students are exposed to hydrology for the first time primarily through this course, and students taking the course have not had an opportunity to be exposed to hydrologic jargon before. And, in most cases this course may be the only course the students may have in hydrology in their undergraduate schooling. Therefore, this hydrology course must be at an elementary level, present basic concepts of hydrology, and develop a flavor for application of hydrology to the solution of a range of environmental problems. It is these considerations that motivated the writing of this book.

Principles of Environmental Physics-John Monteith 1990-03 Thoroughly

revised and up-dated edition of a highly successful textbook.

Plants and Microclimate-Hamlyn G. Jones 1992-06-04 This introduction to the features of the atmospheric environment is of particular relevance to plants and describes the physical and physiological principles required for understanding their interaction with the environment.

Introduction to Soil Physics-Daniel Hillel 2013-10-22 This book is a unified, condensed, and simplified version of the recently issued twin volumes, Fundamentals of Soil Physics and Applications of Soil Physics. Nonessential topics and complexities have been deleted, and little prior knowledge of the subject is assumed. An effort has been made to provide an elementary, readable, and self-sustaining description of the soil's physical properties and of the manner in which these properties govern the processes taking place in the field. Consideration is given to the ways in which the soil's processes can be influenced, for better or for worse, by man. Sample problems are provided in an attempt to illustrate how the abstract principles embodied in mathematical equations can be applied in practice. The author hope that the present version will be more accessible to students than its precursors and that it might serve to arouse their interest in the vital science of soil physics.

Flags Over America-Cheryl Harness 2014-09-01 Every flag tells a story. Whether it’s a scrap of cloth tied to a stick or an elaborate banner, people have used flags to announce themselves, identify their lands, and display their beliefs. Award-winning author and illustrator Cheryl Harness brings to life a picture book history of flags focusing on the United States’ revolutionary beginnings, from liberty poles to the legendary “Star-Spangled Banner” that flew over Fort McHenry in 1814. Includes a glossary of flag terminology and an American flag timeline.

Proses Termal pada Pengolahan Pangan-Elok Waziroh 2017-01-01 Buku “Proses Termal pada Pengolahan Pangan” ini menyajikan prinsip proses termal dipandang dari sisi keteknikan yang diulas secara komprehensif. Pembahasan setiap bab mengulas prinsip kerja proses, komponen alat penyusun peralatan beserta prinsip kerjanya, perhitungan yang terkait dengan proses pengolahan dihubungkan dengan karakteristik produk yang diinginkan, dan perubahan mutu produk yang terjadi selama proses pengolahan. Buku ini terdiri dari tujuh bab yang disajikan secara sistematis, bab 1 mengulas proses blansing yang dapat dijadikan panduan penerapan proses blansing dengan tepat, kecukupan proses pasteurisasi terkait suhu dan waktu proses disajikan pada bab 2, penentuan penetrasi panas dan kecukupan proses termal sterilisasi untuk destruksi mikroba dan kinetika kerusakan makanan disajikan pada bab 3. Pada proses termal selain pemberian energi panas selama pengolahan produk pangan, juga dapat dilakukan dengan “menghilangkan” energi panas yang terkandung pada bahan pangan, hal tersebut diuraikan dengan jelas pada bab 4 dan 5 terkait pendinginan dan pembekuan. Pengeringan yang dapat dikatakan sebagai proses termal tertua dibahas pada bab 6, selain teori dasar dan kinetika pengeringan, metode pengeringan yang paling mutakhir juga dibahas pada bab ini. Adapun bab 7 membahas konsep pemisahan komponen secara fisik pada produk pangan dengan aplikasi proses termal, yaitu evaporasi.

IoT Fundamentals-David Hanes 2017-05-30 Today, billions of devices are Internet-connected, IoT standards and protocols are stabilizing, and technical professionals must increasingly solve real problems with IoT technologies. Now, five leading Cisco IoT experts present the first comprehensive, practical reference for making IoT work. IoT Fundamentals brings together knowledge previously available only in white papers, standards documents, and other hard-to-find sources—or nowhere at all. The authors begin with a high-level overview of IoT and introduce key concepts needed to successfully design IoT solutions. Next, they walk through each key technology, protocol, and technical building block that combine into complete IoT solutions. Building on these essentials, they present several detailed use cases, including manufacturing, energy, utilities, smart+connected cities, transportation, mining, and public safety. Whatever your role or existing infrastructure, you’ll gain deep insight what IoT applications can do, and what it takes to deliver them. Fully covers the principles and components of next-generation wireless networks built with Cisco IOT solutions such as IEEE 802.11 (Wi-Fi), IEEE 802.15.4-2015

(Mesh), and LoRaWAN Brings together real-world tips, insights, and best practices for designing and implementing next-generation wireless networks Presents start-to-finish configuration examples for common deployment scenarios Reflects the extensive first-hand experience of Cisco experts

Perry's Chemical Engineers' Handbook-Robert H. Perry 1999 The Platinum Edition presents the complete content of Perry's Chemical Engineer's Handbook, Seventh Edition, in both print and electronic formats packaged together and now available at one great price. The print Handbook is the world renowned source to chemical engineering practices--covering everything from the fundamentals to details on compuer applications and control, as well as the newest advances in your field. The accompanying CD, with its extensive graphics and fast problem-solving capabilities, is the perfect interactive complement to the text. This exclusive set is expressively designed for engineers with the highest standards--professionals who will settle for nothing less than the outstanding, superior-quality reference tools in this Platinum Edition. Two great reference tools--available at one great price! On the CD-ROM *The entire text of Perry's Chemical Handbook, Seventh Edition *75 interactive equations *On-screen problem-solving: math formulas, calculations, graphs, and tables *Automatic conversions from U.S. to metric (SI) standard units *Fully searchable Adobe Acrobat format *Hyperlinked Table of Contents and Index Minimum System Requirements PC with 486 or higher processor Microsoft Windows 3.1, Windows 95, or Windows NT 3.5.1 or later / 16 MB of RAM 25 MB of available hard-disk spaceSVGA monitor / 2x CD-ROM drive / Mouse

Process Heat Transfer-Donald Q. Kern 2019-02-18 This classic text is an exploration of the practical aspects of thermodynamics and heat transfer. It was designed for daily use and reference for system design and for troubleshooting common engineering problems-an indispensable resource for practicing process engineers.

Skills for Midwifery Practice-Ruth Johnson 2010-03-22 This title is now out of print. A new version with e-book is available under ISBN 9780702044809. This highly acclaimed step-by-step guide provides the relevant physiology, available evidence and rationale for each clinical skill. In a highly readable format, 'Skills for Midwifery Practice' offers self-assessment and short summaries, as well as detailed instruction on achieving a range of clinical skills. Tells you everything you need to know about: Abdominal examination Assessment of maternal and neonatal vital signs Infection control Hygiene needs Elimination management Drug administration Intrapartum and other related childbearing skills Assessment of the baby Infant nutrition Phlebotomy and intravenous therapy Moving and handling Perioperative skills Wound management Restricted mobility management Cardiopulmonary resuscitation for the woman and baby An essential midwifery textbook that covers the fundamental practical tasks required of the student Clear layout ensures easy access to information Highly illustrated to aid understanding Designed to improve competency when delivering basic skills Expanded chapter on the skills used during the first stage of labour Application of national guideline for the management of care Postnatal examination Discussion of the use of infrared touch/non-touch thermometry techniques Specific information on locating pulse sites More on SATS monitoring Increased information on the skills for the second stage of labour, infant feeding and daily examination of the baby Greater reference to infection control protocols and the reduction of hospital-acquired infections.

Principles of Water Resources Planning-Alvin S. Goodman 1984

Prosiding- 2000

Botany of the Living Plant-Frederick Orpen Bower 1919 Angiosperms or higher flowering plants; Thallophyta; Bryophyta; Pteridophyta; Gymnosperms.

Refrigeration Systems and Applications-Ibrahim Dincer 2011-08-10

Refrigeration Systems and Applications, 2nd edition offers a comprehensive treatise that addresses real-life technical and operational problems, enabling the reader to gain an understanding of the fundamental principles and the practical applications of refrigeration technology. New and unique analysis techniques (including exergy as a potential tool), models, correlations, procedures and applications are covered, and recent developments in the field are included - many of which are taken from the author's own research activities in this area. The book also includes some discussion of global warming issues and its potential solutions. Enables the reader to gain an understanding of the fundamental principles and the practical applications of refrigeration technologies. Discusses crucial industrial technical and operational problems, as well as new performance improvement techniques and tools for better design and analysis. Includes fundamental aspects of thermodynamics, fluid flow, and heat transfer; refrigerants; refrigeration cycles and systems; advanced refrigeration cycles and systems, including some novel applications; heat pumps; heat pipes; and many more. Provides easy to follow explanations, numerous new chapter-end problems and worked-out examples as learning aids for students and instructors. Refrigeration is extensively used in a variety of thermal engineering applications ranging from the cooling of electronic devices to food cooling processes. Its wide-ranging implications and applications mean that this industry plays a key role in national and international economies, and it continues to be an area of active research and development. Refrigeration Systems and Applications, 2nd edition forms a useful reference source for graduate and postgraduate students and researchers in academia and as well as practicing engineers working in this important field who are interested in refrigeration systems and applications and the methods and analysis tools for their analysis, design and performance improvement.

Physiology and Biochemistry of Tobacco Plants-Tien-Chioh Tso 1972

Heat Exchangers-Sadik Kakaç 2012-03-01 Heat exchangers are essential in a wide range of engineering applications, including power plants, automobiles, airplanes, process and chemical industries, and heating, air conditioning and refrigeration systems. Revised and updated with new problem sets and examples, Heat Exchangers: Selection, Rating, and Thermal Design, Third Edition presents a systematic treatment of the various types of heat exchangers, focusing on selection, thermal-hydraulic design, and rating. Topics discussed include: Classification of heat exchangers according to different criteria Basic design methods for sizing and rating of heat exchangers Single-phase forced convection correlations in channels Pressure drop and pumping power for heat exchangers and their piping circuit Design solutions for heat exchangers subject to fouling Double-pipe heat exchanger design methods Correlations for the design of two-phase flow heat exchangers Thermal design methods and processes for shell-and-tube, compact, and gasketed-plate heat exchangers Thermal design of condensers and evaporators This third edition contains two new chapters. Micro/Nano Heat Transfer explores the thermal design fundamentals for microscale heat exchangers and the enhancement heat transfer for applications to heat exchanger design with nanofluids. It also examines single-phase forced convection correlations as well as flow friction factors for microchannel flows for heat transfer and pumping power calculations. Polymer Heat Exchangers introduces an alternative design option for applications hindered by the operating limitations of metallic heat exchangers. The appendices provide the thermophysical properties of various fluids. Each chapter contains examples illustrating thermal design methods and procedures and relevant nomenclature. End-of-chapter problems enable students to test their assimilation of the material.

Boiler Operation Engineering-P. Chattopadhyay 2000

Karakterisasi Pori dan Luas Muka Padatan-Tutik Setianingsih 2018-11-30 Jenis pori dapat dikelompokkan berdasarkan asal usul, struktur, aksesabilitas, dan ukuran pori. Bentuk dan ukuran pori dipengaruhi oleh sifat bahan baku dan parameter sintesis. Luas permukaan padatan dipengaruhi oleh ukuran dan bentuk partikel, serta porositas padatan. Adsorpsi adalah proses perpindahan fasa yang banyak digunakan untuk menyisihkan suatu komponen dari fasa fluida. Adsorpsi dipengaruhi oleh struktur pori, distribusi ukuran pori, bentuk pori, dan volume pori. Terdapat bermacam-macam pola isotherm adsorpsi dan hysteresis adsorpsi. Pola isotherm adsorpsi dipengaruhi oleh porositas padatan. Dari pola isotherm

adsorpsi dapat diperkirakan karakteristik pori secara kualitatif. Data isotherm adsorpsi gas dapat diolah untuk menghitung luas permukaan volume pori, dan distribusi ukuran pori. Beberapa metode analisis dapat diterapkan, antara lain metode Langmuir, BET, POD, metode – t (plot-t), dan metode αs,. Surface area analyzer merupakan instrumen untuk penentuan luas permukaan dan data pori berdasarkan data adsorpsi/desorpsi gas nitrogen. Prinsip kerja alat serta preparasi sampel sebelum penentuan sangat penting. Data adsorpsi iodin dan metilen blue dalam sistem larutan dapat digunakan untuk menentukan luas permukaan padatan. Untuk perhitungan ini model adsorpsi Langmuir dan Freundlich digunakan. Contoh olah data isotherm adsorpsi/desorpsi gas nitrogen atau dari sistem larutan dengan berbagai metode analisis akan menjadi bekal ketrampilan dalam mengaplikasikan metode analisis berdasarkan data.

Effective FMEAs-Carl Carlson 2012-04-11 Outlines the correct procedures for doing FMEAs and how to successfully apply them in design, development, manufacturing, and service applications There are a myriad of quality and reliability tools available to corporations worldwide, but the one that shows up consistently in company after company is Failure Mode and Effects Analysis (FMEA). Effective FMEAs takes the best practices from hundreds of companies and thousands of FMEA applications and presents streamlined procedures for veteran FMEA practitioners, novices, and everyone in between. Written from an applications viewpoint—with many examples, detailed case studies, study problems, and tips included—the book covers the most common types of FMEAs, including System FMEAs, Design FMEAs, Process FMEAs, Maintenance FMEAs, Software FMEAs, and others. It also presents chapters on Fault Tree Analysis, Design Review Based on Failure Mode (DRBFM), Reliability-Centered Maintenance (RCM), Hazard Analysis, and FMECA (which adds criticality analysis to FMEA). With extensive study problems and a companion Solutions Manual, this book is an ideal resource for academic curricula, as well as for applications in industry. In addition, Effective FMEAs covers: The basics of FMEAs and risk assessment How to apply key factors for effective FMEAs and prevent the most common errors What is needed to provide excellent FMEA facilitation Implementing a "best practice" FMEA process Everyone wants to support the accomplishment of safe and trouble-free products and processes while generating happy and loyal customers. This book will show readers how to use FMEA to anticipate and prevent problems, reduce costs, shorten product development times, and achieve safe and highly reliable products and processes.

Climate Change and Global Crop Productivity-K. R. Reddy 2000-04-25 Annotation. Worldwide climatic changes have been raising concerns about potential changes to crop yields and production systems. Such concerns include the ability to accommodate these uncertain effects in order to ensure an adequate food supply for an increasing population. Written by leadinginternational experts, this book is the first comprehensive examination of the potential effects climate change, particularly green house gases, will have on agroecosystems. It also reviews the effects such systems have on climate change itself.

Boiling Heat Transfer And Two-Phase Flow-L S Tong 1997-02-01 Completely updated, this graduate text describes the current state of boiling heat transfer and two-phase flow, in terms through which students can attain a consistent understanding. Prediction of real or potential boiling heat transfer behaviour, both in steady and transient states, is covered to aid engineering design of reliable and effective systems.

Fundamentals of Food Process Engineering-Romeo T. Toledo 2012-12-06 Ten years after the publication of the first edition of Fundamentals of Food Process Engineering, there have been significant changes in both food science education and the food industry itself. Students now in the food science curric ulum are generally better prepared mathematically than their counterparts two decades ago. The food science curriculum in most schools in the United States has split into science and business options, with students in the science option following the Institute of Food Technologists' minimum requirements. The minimum requirements include the food engineering course, thus students en rolled in food engineering are generally better than average, and can be chal lenged with more rigor in the course material. The food industry itself has changed. Traditionally, the food industry has been primarily involved in the canning

and freezing of agricultural commodi ties, and a company's operations generally remain within a single commodity. Now, the industry is becoming more diversified, with many companies involved in operations involving more than one type of commodity. A number of for mulated food products are now made where the commodity connection becomes obscure. The ability to solve problems is a valued asset in a technologist, and often, solving problems involves nothing more than applying principles learned in other areas to the problem at hand. A principle that may have been commonly used with one commodity may also be applied to another commodity to produce unique products.

Micromanufacturing Engineering and Technology-Yi Qin 2010-07-02 This book presents applicable knowledge of technology, equipment and applications, and the core economic issues of micromanufacturing for anyone with a basic understanding of manufacturing, material, or product engineering. It explains micro-engineering issues (design, systems, materials, market and industrial development), technologies, facilities, organization, competitiveness, and innovation with an analysis of future potential. The machining, forming, and joining of miniature / micro-products are all covered in depth, covering: grinding/milling, laser applications, and photo chemical etching; embossing (hot & UV), injection molding and forming (bulk, sheet, hydro, laser); mechanical assembly, laser joining, soldering, and packaging. • Presents case studies, material and design considerations, working principles, process configurations, and information on tools, equipment, parameters and control • Explains the many facets of recently emerging additive / hybrid technologies and systems, incl: photo-electric-forming, liga, surface treatment, and thin film fabrication • Outlines system engineering issues pertaining to handling, metrology, testing, integration & software • Explains widely used micro parts in bio / medical industry, information technology and automotive engineering. • Covers technologies in high demand, such as: micro-mechanical-cutting, lasermachining, micro-forming, micro-EDM, micro-joining, photo-chemical-etching, photo-electro-forming, and micro-packaging

Fundamentals of Soil Physics-Daniel Hillel 2013-10-22 This book is not, in any case, in total defiance of the Wise Old Man's admonition, for it is not an entirely new book. Rather, it is an outgrowth of a previous treatise, written a decade ago, entitled "Soil and Water: Physical Principles and Processes." Though that book was well enough received at the time, the passage of the years has inevitably made it necessary to either revise and update the same book, or to supplant it with a fresh approach in the form of a new book which might incorporate still-pertient aspects of its predecessor without necessarily being limited to the older book's format or point of view.

Open-channel Hydraulics-Ven Te Chow 2009 Open-Channel Hydraulics, originally published in 1959, deals with the design for flow in open channels and their related structures. Covering both theory and practice, it attempts to bridge the gap that generally exists between the two. Theory is introduced first and is then applied to design problems. In many cases the application of theory is illustrated with practical examples. Theory is frequently simplified by adopting theoretically less rigorous treatments with sound concepts, by avoiding use of advanced mathematical manipulations, or by replacing such manipulations with practical numerical procedures. To facilitate understanding of the subject matter, the treatment is mostly based on the condition of one- or two-dimensional flow. The book deals mainly with American practice but also includes related information from many countries throughout the world. Material is divided into five main sections for an orderly and logical treatment of the subject: Basic Principles. Uniform Flow, Varied Flow, Rapidly Varied Flow, and Unsteady Flow. There are 67 illustrative examples, 282 illustrations, 319 problems, and 810 references. This classic textbook was the first English-language book on the subject in two decades. Open-Channel Hydraulics is a valuable text for students of engineering mechanics. hydraulics. civil. agricultural. sanitary. and mechanical engineering, and a helpful compendium for practicing engineers. Dr. Ven Te Chow was a Professor of Hydraulic Engineering and led the hydraulic engineering research and teaching programs at the University of Illinois. Through many years of experience as a teacher, engineer, researcher, writer. lecturer, and consultant, he became an internationally recognized leader in the fields of hydraulics, hydrology and hydraulic engineering. Dr. Ven Te Chow authored two technical books and more than 60 articles and papers in scientific an engineering magazines and journals. He was a member of lAHR, ASCE, AGU, AAAS, SEE, and Sigma Xi, and had been Chairman of the American Geophysical Union's Permanent

Research Committee on Runoff.

Environmental Monitoring and Characterization-Janick Artiola 2004-06-10 Environmental Monitoring and Characterization is an integrated, hands-on resource for monitoring all aspects of the environment. Sample collection methods and relevant physical, chemical and biological processes necessary to characterize the environment are brought together in twenty chapters which cover: sample collection methods, monitoring terrestrial, aquatic and air environments, and relevant chemical, physical and biological processes and contaminants. This book will serve as an authoritative reference for advanced students and environmental professionals. Examines the integration of physical, chemical, and biological processes Emphasizes field methods and real-time data acquisition, made more accessible with case studies, problems, calculations, and questions Includes four color illustrations throughout the text Brings together the concepts of environmental monitoring and site characterization

Climate and Agriculture-Jen Hu Chang 1974 This summary of what is known about microclimatic environments and the eff ects of climate on plant growth presents a comprehensive statement on the complex relationship between climate and agriculture. Th e author covers the theory and data of modern physical geography, meteorology, and agronomy within the context of contemporary ecological analysis to produce a book invaluable not only to the student and research worker but also one that deals for the fi rst time with the application of theory to real problems of energy budgets and water balance for the practical agronomist. Arranged according to the physical processes that aff ect the climate/plant relationship, the book is divided into two parts. The first part considers radiation fl ux in the free atmosphere and in the biosphere near the ground, the processes of photosynthesis and photoperiodism, and the effect of radiation and temperature on plant growth. The second part discusses in detail methods of determining or estimating both potential and actual evapotranspiration, the meteorological approach of computing water balance, and the eff ect of water on plant growth. The author's clear and logical presentation of material, emphasizing general principles rather than experimental and technical details, makes this book especially useful for students of agricultural climatology. The broad scope of the work and its comprehensive survey of the literature make it equally a valuable reference for professionals in physical geography, meteorology, agronomy, botany, plant physiology, soil science, and hydrology. Jen-Hu Chang is professor emeritus of geography and climatology at the University of Hawaii. He is a past member of the editorial board of the Annuals of the Association of American Geographers and is past secretary of the Hawaiian Geophysical Society. He is the author of Atmospheric Circulation Systems and Climates, Agricultural Geography of Taiwan, and Problems and Methods in Agricultural Climatology.

Land Surface Evaporation-Thomas J. Schmugge 2012-12-06 General circulation model (GCM) experiments in the late 1970's indicated that the climate is sensitive to variations in evaporation at the land surface. Thus, in the context of climate modeling, it became important to develop techniques which would realistically estimate the evaporation flux on land. Land Surface Evaporation: Measurement and Parameterization discusses strategies for the use of experimental data in developing and testing parameterization schemes of the evaporation flux in GCM's. The book reviews state-of-the-art techniques, such as remote sensing, which measure evaporation fluxes over continental surfaces. It evaluates their relevance with respect to the various spatial and temporal scales of interest. This book will provide researchers in climatology, meteorology, hydrology and water management, and remote sensing with a thorough overview of current research in land surface evaporation. It will also give young scientists insight into surface processes.

HVAC Simplified-Stephen P. Kavanaugh 2006 HVAC Simplified (zip file)This text provides an understanding of fundamental HVAC concepts and how to extend these principles to the explanation of simple design tools used to create building systems that are efficient and provide comfortable and healthy environments. The text contains twelve chapters that review the fundamentals of refrigeration, heat transfer, and psychrometrics. Information from the ASHRAE Handbook"Fundamentals is summarized and supplemented with items from industry sources. The remaining chapters assemble information from ASHRAE Handbooks, ASHRAE standards and

manufacturer data present design procedures commonly used by professional engineers. Other topics include equipment selection and specification, comfort and IAQ, building assemblies, heating and cooling loads, air distribution system design, water distribution system design, electrical and control systems, design for energy efficiency, and design for economic value. A suite of complementary spreadsheet programs that incorporate design and computation procedures from the text are provided on the CD that accompanies this book. These programs include psychrometric analysis, equipment selection, heating and cooling load calculation, an electronic "ductulator," piping system design, a ductwork cost calculator, and programs to evaluate building system demand and energy efficiency. Future updates to these programs can be found at www.ashrae.org/updates. The downloadable version of this product comes as a zip file and includes a PDF of the User's Manual and all the supporting files located on the CD that accompanies the print version. You must have WinZip to open the download.

Engineering Hydrology-Victor Miguel Ponce 1994