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Aeronautical Engineering Refresher Program Study Guide: Integral Calculus Jun 25 2019 Study Guide for Integral Calculus for Aeronautical Engineering.

Analytical and Stochastic Modeling Techniques and Applications Nov 22 2021 This book constitutes the refereed proceedings of the 19th International Conference on Analytical and Stochastic Modelling Techniques and Applications, ASMTA 2012, held in Grenoble, France, in June 2012. The 20 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on queueing systems; networking applications; Markov chains; stochastic modelling.

NASA Technical Note Dec 12 2020

Basic Electrical and Electronics Engineering Mar 27 2022

NeuroKids - Child Neurology Workbook Jul 27 2019 "NeuroKids" is the innovative answer to the clinical challenges in child neurology as workbook and corresponding app. With the basic idea of mind maps, the classic textbook has been further

developed to provide more targeted information. An uniform classification allows a quick orientation: The Paediatric Clinical Scouts (PCS) provide a condensed knowledge overview and are a guide to diagnostic work-up and therapeutic decision-making. The PCS concentrate on the single patient and give professional skills for emergency medicine, for health care of chronically ill children and adolescents and rehabilitative and palliative therapy. The PCS are complemented by a comprehensive, precise, internationally oriented drug register as well as schemes for neurological and developmental neurological examination with the evidence of good practice. "I am very happy that NeuroKids was endorsed and supported by the board of the European Paediatric Neurology Society (EPNS). We sincerely believe this is a major step forward in training and educating young and old paediatric neurologists and are therefore extremely happy to collaborate in this project." (Lieven Lagae, President European Paediatric Neurology Society) In cooperation with: European Paediatric Neurology Society (EPNS) Ludwig-Maximilians-University Munich, Germany Paediatric Neurology and Developmental Medicine, Children's Hospital Ludwig-Maximilians-University Munich, Germany Institute for Medical Education (DAM) Ludwig-Maximilians-University Munich, Germany Center for International Health (CIH)

Big Data in Radiation Oncology Feb 23 2022 Big Data in Radiation Oncology gives readers an in-depth look into how big data is having an impact on the clinical care of cancer patients. While basic principles and key analytical and processing techniques are introduced in the early chapters, the rest of the book turns to clinical applications, in particular for cancer registries, informatics, radiomics, radiogenomics, patient safety and quality of care, patient-reported outcomes, comparative effectiveness, treatment planning, and clinical decision-making. More features of the book are: Offers the first focused treatment of the role of big data in the clinic and its impact on radiation therapy. Covers applications in cancer registry, radiomics, patient safety, quality of care, treatment planning, decision making, and other key areas. Discusses the fundamental principles and techniques for processing and analysis of big data. Address the use of big data in cancer prevention, detection, prognosis, and management. Provides practical guidance on implementation for clinicians and other stakeholders. Dr. Jun Deng is a professor at the Department of Therapeutic Radiology of Yale University School of Medicine and an ABR board certified medical physicist at Yale-New Haven Hospital. He has received numerous honors and awards such as Fellow of Institute of Physics in 2004, AAPM Medical Physics Travel Grant in 2008, ASTRO IGRT Symposium Travel Grant in 2009, AAPM-IPEM Medical Physics Travel Grant in 2011, and Fellow of AAPM in 2013. Lei Xing, Ph.D., is the Jacob Haimson Professor of Medical Physics and Director of Medical Physics Division of Radiation Oncology Department at Stanford University. His research has been focused on inverse treatment planning, tomographic image reconstruction, CT, optical and PET imaging instrumentations, image guided interventions, nanomedicine, and applications of molecular imaging in radiation oncology. Dr. Xing is on the editorial boards of a number of journals in radiation physics and medical imaging, and is recipient of numerous awards, including the American Cancer Society Research Scholar Award, The Whitaker Foundation Grant Award, and a Max Planck Institute Fellowship.

Journal of the Department of Agriculture Jun 05 2020

Machine Design Nov 10 2020 Machine Design explains the design of machine elements for engineering undergraduates of mechanical, production and industrial disciplines and provides a comprehensive survey of machine elements and their analytical design methods. It explains the

Technical Note - National Advisory Committee for Aeronautics Sep 28 2019

Graph-Theoretic Concepts in Computer Science Oct 02 2022 This book constitutes the thoroughly refereed post-conference proceedings of the 35th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2009, held in Montpellier, France, in June 2009. The 28 revised full papers presented together with two invited

papers were carefully reviewed and selected from 69 submissions. The papers feature original results on all aspects of graph-theoretic concepts in Computer Science, e.g. structural graph theory, sequential, parallel, and distributed graph and network algorithms and their complexity, graph grammars and graph rewriting systems, graph-based modeling, graph-drawing and layout, diagram methods, and support of these concepts by suitable implementations.

Encyclopedia of Computer Science and Technology Feb 11 2021 With breadth and depth of coverage, the Encyclopedia of Computer Science and Technology, Second Edition has a multi-disciplinary scope, drawing together comprehensive coverage of the inter-related aspects of computer science and technology. The topics covered in this encyclopedia include: General and reference Hardware Computer systems organization Networks Software and its engineering Theory of computation Mathematics of computing Information systems Security and privacy Human-centered computing Computing methodologies Applied computing Professional issues Leading figures in the history of computer science The encyclopedia is structured according to the ACM Computing Classification System (CCS), first published in 1988 but subsequently revised in 2012. This classification system is the most comprehensive and is considered the de facto ontological framework for the computing field. The encyclopedia brings together the information and historical context that students, practicing professionals, researchers, and academicians need to have a strong and solid foundation in all aspects of computer science and technology.

Image-Based Fractal Description of Microstructures Oct 10 2020 Fractal analysis has rapidly become an important field in materials science and engineering with broad applications to theoretical analysis and quantitative description of microstructures of materials. Fractal methods have thus far shown great potential in engineering applications in quantitative microscopic analysis of materials using commercial microscopes. This book attempts to introduce the fundamentals and the basis methods of fractal description of microstructures in combination with digital imaging and computer technologies. Basic concepts are given in the form of mathematical expressions. Detailed algorithms in practical applications are also provided. Fractal measurement, error analysis and fractal description of cluster growth, thin films and surfaces are emphasized in this book. Image-Based Fractal Description of Microstructures provides a comprehensive approach to materials characterization by fractal from theory to application.

Conn's Current Therapy 2016 E-Book Jun 29 2022 Designed for busy medical practitioners who need a trustworthy, current, and easy-to-use resource, Conn’s Current Therapy 2016 focuses solely on up-to-date treatment protocols for the most common complaints, acute diseases, and chronic illnesses. Covering more than 300 topics, Drs. Edward T. Bope and Rick D. Kellerman present the expertise and knowledge of hundreds of skilled international leaders on evidence-based clinical management options, ensuring you're well equipped with the practical and accurate guidance needed for effective patient care. Includes PharmD review of newly approved drugs. Brand-new chapters cover Ebola, Chikungunya, dry eye, and adolescent health. In addition to current therapy, each chapter also features important diagnostic criteria to ensure delivery of the correct diagnosis and treatment. More than 400 easy-to-understand tables make referencing complex data quick and easy. Nearly 300 images, including algorithms, anatomical illustrations, and photographs, provide useful information for diagnosis. Section on symptoms is devoted to common patient complaints.

Thermoluminescence & Thermoluminescent Dosimetry May 05 2020 First Published in 1984, this set offers a comprehensive insight into thermolumiscence. Carefully compiled and filled with a vast repertoire of notes, diagrams, and references this book serves as a useful reference for radiobiologists and physicists and other practitioners in their respective fields.

A Method for Estimating Gas Turbine-jet Airplane Performance Nov 30 2019

Pharmacotherapeutics For Advanced Practice Nurse Prescribers May 17 2021 This exceptional text builds your knowledge of pharmacology by first providing an overview of pharmacologic principles and then teaching you how to apply those principles to clinical practice. Focusing on applying pharmacologic scientific knowledge to clinical practice, it explains diagnostic and treatment reasoning and rational drug selection, while providing useful clinical pearls from experienced practitioners.

Tarascon Pediatric Emergency Pocketbook Jun 17 2021 The Tarascon Pediatric Emergency Pocketbook, Sixth Edition is a meticulously referenced pocket guide to managing ill or injured children. This updated edition features many new or upgraded guidelines that cover anaphylaxis, hereditary angioedema, head trauma, diabetic ketoacidosis, colic, endocarditis prophylaxis, jaundice, bleeding disorders, oncologic emergencies, hypertension, HIV exposure, and febrile and non-febrile seizures. Newly Added/ Expanded Sections Include: Resuscitation equipment and medication chart (look up by age, length or weight) 20 Pages of empiric antibiotic recommendations Critically ill neonates Asthma and bronchiolitis (with new clinical scoring) Non-invasive ventilation Subcutaneous fluid administration Topical anesthesia ECG features of serious disease Pediatric meningitis score Viral diseases & testing and much more Used at bedside, the Sixth Edition, continues to outline the diagnosis and management for almost all emergencies occurring in infants and children with expanded commentary regarding current controversies in this field. The Tarascon Pediatric Emergency Pocketbook, Sixth Edition is an ideal companion for practitioners in the emergency room or in a family practice setting.

Pediatric Infectious Disease: Part II, An Issue of Infectious Disease Clinics of North America, E-Book Jul 31 2022 This issue of Infectious Disease Clinics of North America, Guest Edited by Mary Anne Jackson, MD and Angela Myers, MD, is Part II of a 2-part issue devoted to Pediatric Infectious Diseases. Drs. Jackson and Myers have assembled a group of expert authors to review the following topics: Measles 50 Years After Initiation of MMR Vaccine; Pertussis in the Era of New Strains; Promoting Vaccine Confidence; The Changing Epidemiology of Meningococcal Infection; Prevention of Influenza in Children; Rabies - Rare Human Infection, Common Questions; The Expanded Impact of Human Papillomavirus Vaccine; The Challenge of Global Poliomyelitis Eradication; The Eradication of Pediatric Rotavirus Infection; Approach to Immunization for the Traveling Child; and Status of Pneumococcal Infection in the US in the conjugate vaccine era.

Advances in Practical Applications of Heterogeneous Multi-Agent Systems - The PAAMS Collection Mar 15 2021 This book constitutes the refereed proceedings of the 12th International Conference on Practical Applications of Agents and Multi-Agent Systems, PAAMS 2014, held in Salamanca, Spain, in June 2014. The 12 revised full papers and 14 short papers were carefully reviewed and selected from 52 submissions and are presented together with 19 demonstrations. The papers report on the application and validation of agent-based models, methods, and technologies in a number of key application areas, including: agent-oriented software engineering, conversations, motion coordination and unmanned aerial vehicles, web and service systems, robotics exploration, smart cities and infrastructures, and social systems.

Transactions of Technical Conference on Metric Mechanical Fasteners Apr 27 2022

Differential Privacy Apr 03 2020 Over the last decade, differential privacy (DP) has emerged as the de facto standard privacy notion for research in privacy-preserving data analysis and publishing. The DP notion offers strong privacy guarantee and has been applied to many data analysis tasks. This Synthesis Lecture is the first of two volumes on differential privacy. This lecture differs from the existing books and surveys on differential privacy in that we take an approach balancing theory and practice. We focus on empirical accuracy performances of algorithms rather than asymptotic accuracy guarantees. At the same time, we try to explain why these algorithms have those empirical accuracy performances. We also

take a balanced approach regarding the semantic meanings of differential privacy, explaining both its strong guarantees and its limitations. We start by inspecting the definition and basic properties of DP, and the main primitives for achieving DP. Then, we give a detailed discussion on the the semantic privacy guarantee provided by DP and the caveats when applying DP. Next, we review the state of the art mechanisms for publishing histograms for low-dimensional datasets, mechanisms for conducting machine learning tasks such as classification, regression, and clustering, and mechanisms for publishing information to answer marginal queries for high-dimensional datasets. Finally, we explain the sparse vector technique, including the many errors that have been made in the literature using it. The planned Volume 2 will cover usage of DP in other settings, including high-dimensional datasets, graph datasets, local setting, location privacy, and so on. We will also discuss various relaxations of DP.

Radiation Dosimetry Instrumentation and Methods Apr 15 2021 Radiation dosimetry has made great progress in the last decade, mainly because radiation therapy is much more widely used. Since the first edition, many new developments have been made in the basic methods for dosimetry, i.e. ionization chambers, TLD, chemical dosimeters, and photographic films. Radiation Dosimetry: Instrumentation and Methods, Second Edition brings to the reader these latest developments. Written at a high level for medical physicists, engineers, and advanced dosimetrists, it concentrates only on evolvement during the last decade, relying on the first edition to provide the basics.

Auxiliary Specialty Course Jan 13 2021

International Conference on Security and Privacy in Communication Networks Oct 29 2019 This 2-volume set constitutes the thoroughly refereed post-conference proceedings of the 10th International Conference on Security and Privacy in Communication Networks, SecureComm 2014, held in Beijing, China, in September 2014. The 27 regular and 17 short papers presented were carefully reviewed. It also presents 22 papers accepted for four workshops (ATCS, SSS, SLSS, DAPRO) in conjunction with the conference, 6 doctoral symposium papers and 8 poster papers. The papers are grouped in the following topics: security and privacy in wired, wireless, mobile, hybrid, sensor, ad hoc networks; network intrusion detection and prevention, firewalls, packet filters; malware, and distributed denial of service; communication privacy and anonymity; network and internet forensics techniques; public key infrastructures, key management, credential management; secure routing, naming/addressing, network management; security and privacy in pervasive and ubiquitous computing; security & privacy for emerging technologies: VoIP, peer-to-peer and overlay network systems; security & isolation in data center networks; security & isolation in software defined networking.

Radio Wave Propagation Fundamentals, Second Edition Sep 08 2020 This completely updated second edition of an Artech House classic provides a thorough introduction to the basic principles of electromagnetic wave propagation of radio frequencies in real-world conditions, fully updated by including new achievements in theory and technology. It serves as an invaluable daily reference for practitioners in the field and as a complete, organized text on the subject. This comprehensive resource covers a wide range of essential topics, from the classification of radio waves, electromagnetic wave theory, and antennas for RF radio links, to the impact of the earth surface on the propagation of ground waves, atmospheric affects in radio wave propagation, and radio wave reception. The book explores the propagation of the ground radio waves, namely the waves that propagate in vicinity of the earth's surface (e.g., guided by that interface), without involvement of any atmospheric effects. Specifics of the high-frequency (HF) radio propagation due to reflections from ionospheric layers is studied, based on commonly used models of the ionospheric vertical profiles. Scattering of the radio waves of UHF and higher frequency bands from the random variations of the tropospheric refraction index (from tiny air

turbulences) are also considered by using the principles of statistical radio-physics. Analysis of propagation conditions on real propagation paths, including analysis of the power budget of the VHF/UHF link to assure its stability (percentage of availability within observation time frame), terrestrial, broadcast, mobile, and satellite RF links are presented. The engineering design of the cellular networks, including LTE 4G, 5G and upcoming higher generations is explored. HF propagation predictions for extremely long-range links design for commercial and military applications are explained. Packed with examples and problems, this book provides a theoretical background for astrophysical, aeronomy and geophysical instrumentation design.

Technical Reports Aug 27 2019

Regularization Theory for Ill-posed Problems Aug 20 2021 Thismonograph is a valuable contribution to thehighly topical and extremly productive field ofregularisationmethods for inverse and ill-posed problems. The author is an internationally outstanding and acceptedmathematicianin this field. In his book he offers a well-balanced mixtureof basic and innovative aspects.He demonstrates new,differentiatedviewpoints, and important examples for applications. The bookdemontrates thecurrent developments inthe field of regularization theory,such as multiparameter regularization and regularization in learning theory. The book is written for graduate and PhDstudents and researchersin mathematics, natural sciences, engeneering, and medicine.

An Integrated Framework for Structural Geology Jan 25 2022 AN INTEGRATED FRAMEWORK FOR STRUCTURAL GEOLOGY A modern and practice-oriented approach to structural geology An Integrated Framework for Structural Geology: Kinematics, Dynamics, and Rheology of Deformed Rocks builds a framework for structural geology from geometrical description, kinematic analysis, dynamic evolution, and rheological investigation of deformed rocks. The unique approach taken by the book is to integrate these principles of continuum mechanics with the description of rock microstructures and inferences about deformation mechanisms. Field, theoretical and laboratory approaches to structural geology are all considered, including the application of rock mechanics experiments to nature. Readers will also find: Three case studies that illustrate how the framework can be applied to deformation at different levels in the crust and in an applied structural geology context Hundreds of detailed, two-color illustrations of exceptional clarity, as well as many microstructural and field photographs The quantitative basis of structural geology delivered through clear mathematics Written for advanced undergraduate and graduate students in geology, An Integrated Framework for Structural Geology will also earn a place in the libraries of practicing geologists with an interest in a one-stop resource on structural geology.

Pediatric Hypertension Nov 03 2022 The importance of hypertension in children and adolescents is becoming incre- ingly recognized by physicians and scientists in the 21st century. However, in contrast to the attention that hypertension has received in the adult population for the past three decades since the first Joint National Committee (JNC) report, research and clinical knowledge that involves hypertension in children is still very much in its own childhood. Pediatric Hypertension, edited by Drs. Portman, Sorof, and Ingelfinger, is undoubtedly the most up-to-date and clinically relevant contribution to the field of hypertension in children available because it brings together the numerous pathophysiologic, diagnostic, and therapeutic advances in the evaluation of high blood pressure in infants, children, and adolescents. The editors have carefully organized their volume into sections that cover blood pressure regulation in infants and children, blood pressure measurement issues, pat- physiology and clinical assessment for essential and secondary forms of hypertension during childhood, and nonpharmacologic and pharmacologic approaches to the tre- ment of hypertension in children.

WALCOM: Algorithm and Computation Sep 20 2021 This book constitutes the refereed

proceedings of the 6th International Workshop on Algorithms and Computation, WALCOM 2012, held in Dhaka, Bangladesh, in February 2012. The 20 full papers presented together with 3 invited papers were carefully reviewed and selected from 50 submissions. The papers are grouped in topical sections on graph algorithms; computational geometry; approximation algorithms; graph drawing; string and data structures; and games and cryptography.

Proceedings of the 1st Conference of the European Association on Quality Control of Bridges and Structures Mar 03 2020 This book gathers the latest advances and innovations in the field of quality control and improvement of bridges and structures, as presented by international researchers and engineers at the 1st Conference of the European Association on Quality Control of Bridges and Structures (EUROSTRUCT 2021), held in Padua, Italy on August 29-September 1, 2021. Contributions include a wide range of topics such as testing and advanced diagnostic techniques for damage detection; SHM and AI, IoT and machine learning for data analysis of bridges and structures; fiberoptics and smart sensors for long-term SHM; structural reliability, risk, robustness, redundancy and resilience for bridges; corrosion models, fatigue analysis and impact of hazards on infrastructure components; bridge and asset management systems, and decision-making models; Life-Cycle Analysis, retrofit and service-life extension, risk management protocols; quality control plans, sustainability and green materials.

Advances in Phonetics Jul 07 2020 Inhalt: S. P. Whiteside / C. Hodgson: Development of Motor Speech S. P. Whiteside / R. A. Varley: Dual-Route Phonetic Encoding R. A. Varley / S. P. Whiteside: Evidence from Apraxia of Speech N. O. Schiller: Masked Priming of Sublexical Units J. Esling / J. A. W. Clayards: Laryngoscopic Analysis of Pharyngeal Articulations and Larynx-Height Voice Quality Settings A. Krasovitsky: Russian Vocalic Systems with Vowel Discordance H. Hollien / K. Liljegren / C. A. Martin / G. DeJong: Prediction of Intoxication Levels by Speech Analysis R. P. Dixit: Tongue-Palate Contact Patterns of Hindi H. Hollien / K. Nielson: Problems Created when Vowels Are Sung at Very High Pitches R. Garrison-Tull: Understanding Performance Problems of Cold-Speech in Automatic Speaker Recognition Systems S. Werner / M. Vainio: Standardized Comparison of Intonation Models D. Horga: The Long-Term Average Spectrum as a Measure of Voice Quality in L1 and L2 Speakers J. Rosenhouse: Pronunciation of Foreign Proper Names in Speakers of American English S. S. Sarma / S. S. Agrawal: Hindi Speech Data Bases for Research in Speech Recognition and Synthesis D. Stewart / J. Ming / F. J. Smith: Automatic Syllabification with Application to Continuous Speech Recognition "This book is an impressive collection of the most current work in the field. ... The editor, Dr. Braun, has done an excellent job of putting theses papers together in an easy-to-read format and capturing the essence of the IPS-98 meeting. The topics have a broad appeal and will familiarize the reader with the types of research currently going on in several areas of Phonetics. It is unusual to find a volume that demonstrates such diversity of topics with a common underlying theme. This book would be of great value to researchers and students alike." The Phonetician .

Koda-Kimble and Young's Applied Therapeutics Jan 01 2020 Rev. ed. of: Applied therapeutics: the clinical use of drugs / edited by Mary Anne Koda-Kimble ... [et al.]. 9th ed. c2009.

Truncated Predictor Feedback for Time-Delay Systems Oct 22 2021 This book provides a systematic approach to the design of predictor based controllers for (time-varying) linear systems with either (time-varying) input or state delays. Differently from those traditional predictor based controllers, which are infinite-dimensional static feedback laws and may cause difficulties in their practical implementation, this book develops a truncated predictor feedback (TPF) which involves only finite dimensional static state feedback. Features and topics: A novel approach referred to as truncated predictor feedback for the stabilization of (time-varying) time-delay systems in both the continuous-time setting and the discrete-

time setting is built systematically Semi-global and global stabilization problems of linear time-delay systems subject to either magnitude saturation or energy constraints are solved in a systematic manner Both stabilization of a single system and consensus of a group of systems (multi-agent systems) are treated in a unified manner by applying the truncated predictor feedback and predictor feedback The properties of the solutions to a class of parametric (differential and difference) Lyapunov matrix equations are presented in detail Detailed numerical examples and applications to the spacecraft rendezvous and formation flying problems are provided to demonstrate the usefulness of the presented theoretical results This book can be a useful resource for the researchers, engineers, and graduate students in the fields of control, applied mathematics, mechanical engineering, electrical engineering, and aerospace engineering.

Fuzziness in Database Management Systems Jan 31 2020 The volume "Fuzziness in Database Management Systems" is a highly informative, well-organized and up-to-date collection of contributions authored by many of the leading experts in its field. Among the contributors are the editors, Professors Patrick Bose and Janusz Kacprzyk, both of whom are known internationally. The book is like a movie with an all-star cast. The issue of fuzziness in database management systems has a long history. It begins in 1968 and 1971, when I spent my sabbatical leaves at the IBM Research Laboratory in San Jose, California, as a visiting scholar. During these periods I was associated with Dr. E.F. Codd, the father of relational models of database systems, and came in contact with the developers ofiBMs System Rand SQL. These associations and contacts at a time when the methodology of relational models of data was in its formative stages, made me aware of the basic importance of such models and the desirability of extending them to fuzzy database systems and fuzzy query languages. This perception was reflected in my 1973 ffiM report which led to the paper on the concept of a linguistic variable and later to the paper on the meaning representation language PRUF (Possibilistic Relational Universal Fuzzy). More directly related to database issues during that period were the theses of my students V. Tahani, J. Yang, A. Bolour, M. Shen and R. Sheng, and many subsequent reports by both graduate and undergraduate students at Berkeley.

Feigin and Cherry's Textbook of Pediatric Infectious Diseases E-Book May 29 2022 Feigin and Cherry's Textbook of Pediatric Infectious Diseases helps you put the very latest knowledge to work for your young patients with unparalleled coverage of everything from epidemiology, public health, and preventive medicine through clinical manifestations, diagnosis, treatment, and much more. Ideal for all physicians, whether in an office or hospital setting, Feigin and Cherry’s equips you with trusted answers to your most challenging clinical infectious disease questions. Meet your most difficult clinical challenges in pediatric infectious disease, including today’s more aggressive infectious and resistant strains as well as emerging and re-emerging diseases, with unmatched, comprehensive coverage of immunology, epidemiology, public health, preventive medicine, clinical manifestations, diagnosis, treatment, and much more. Find the answers you need quickly thanks to an organization both by organ system and by etiologic microorganism, allowing you to easily approach any topic from either direction.

Thermosyphons and Heat Pipes: Theory and Applications Dec 24 2021 This book is about theories and applications of thermosyphons and heat pipes. It discusses the physical phenomena that drive the working principles of thermosyphons, heat pipes and related technologies. Many applications are discussed in this book, including: rationalizing energy use in industry, solar heating of houses, decrease of water consumption in cooling towers, improvement of the thermal performance of industrial and domestic ovens and driers and new devices for heating stored oil and gas in petrochemical plants. Besides, the book also presents heat pipe and thermosyphon technologies for the thermal management of electronic devices, from portable equipment to airplanes and satellites. The first part of the book explores the

physical working principles of thermosyphons and heat pipes, by explaining current heat transfer and thermal resistance models. The author discusses the new heat pipe and thermosyphon technologies that have been developed in the last decade for solving a myriad of electronic, environment and industrial heat and thermal problems. The focus then shifts to the thermosyphon technology applications, and the models and simulations necessary for each application – including vehicles, domestic appliances, water conservation technologies and the thermal control of houses and other structures. Finally, the book looks at the new technologies for heat pipes (mini/micro) and similar devices (loop heat pipes), including new models for prediction of the thermal performance of porous media. This book inspires engineers to adopt innovative approaches to heat transfer problems in equipment and components by applying thermosyphon and heat pipe technologies. It is also of interest to researchers and academics working in the heat transfer field, and to students who wish to learn more about heat transfer devices.

Harwood-Nuss' Clinical Practice of Emergency Medicine Sep 01 2022 Organized for easy reference, this comprehensive, concise, and clinically focused text covers all aspects of emergency medicine. Chapters follow a consistent, structured format—clinical presentation, differential diagnosis, evaluation, management, and disposition with highlighted critical interventions and common pitfalls. In this edition, the Pain and Pain Management section is now at the front of the book, since a large percentage of emergency department patients present with pain-related complaints. The Trauma section now follows the High-Risk Chief Complaint section. A new two-color design will help readers find critical elements of each chapter easily. A companion Website will include the fully searchable text, more than 400 self-assessment questions with answers, and additional images and tables.

Artificial Intelligence and Computational Intelligence Aug 08 2020 The 2010 International Conference on Artificial Intelligence and Computational Intelligence (AICI 2010) was held October 23–24, 2010 in Sanya, China. The AICI 2010 received 1,216 submissions from 20 countries and regions. After rigorous reviews, 105 high-quality papers were selected for publication in the AICI 2010 proceedings. The acceptance rate was 8%. The aim of AICI 2010 was to bring together researchers working in many different areas of artificial intelligence and computational intelligence to foster the exchange of new ideas and promote international collaborations. In addition to the large number of submitted papers and invited sessions, there were several internationally well-known keynote speakers. On behalf of the Organizing Committee, we thank Hainan Province Institute of Computer and Qiongzhou University for its sponsorship and logistics support. We also thank the members of the Organizing Committee and the Program Committee for their hard work. We are very grateful to the keynote speakers, invited session organizers, session chairs, reviewers, and student helpers. Last but not least, we thank all the authors and participants for their great contributions that made this conference possible.

Conn's Current Therapy 2011 Jul 19 2021 Conn’s Current Therapy 2011 is an easy-to-use, in-depth guide to the latest advances in therapeutics for common complaints and diagnoses. Drs. Edward T. Bope, Rick D. Kellerman, and Robert E. Rakel present the expertise and knowledge of hundreds of skilled international leaders on the full range of evidence-based management options. With coverage of recent developments in travel medicine, sleep apnea, and immunization practices, as well as standardized diagnostic points and clinical recommendation tables, you’ll have access to the information you need. Deliver effective treatment after making correct diagnoses through discussions of important diagnostic criteria in each chapter. Get the best, most practical and accurate advice from acknowledged expert contributors. Apply best practices from around the world from coverage of management methods used by international experts. Stay current with recent developments in travel medicine, sleep apnea, immunization practices, and much more. Know the full range of treatment options through coverage of the latest information on recently-approved and soon-to-

be-approved drugs. Tap into the guidance of experts for practical and accurate advice on diagnosis and management. Find the answers you need more easily with standardized Current Diagnostic Points and Current Therapy clinical recommendation tables. Accurately code for reimbursement using an up-to-date ICD-9 list of common diseases and codes.