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CEC - GEMMA EWING

Essentials of Dental Radiography and Radiology E-Book

This book is the business side of dentistry. Learn facts never taught in dental school nor learned while practicing dentistry: How to value a dental practice Tax consequences of buying or selling a practice. How to choose a broker, and much more. Includes 6 overhead analysis templates and 2 retirement income planners. It's a must read!

This book offers detailed coverage of color, colorants, the coloring of materials, and reproducing the color of materials through imaging. It combines the clarity and ease of earlier editions with significant updates about the advancement in color theory and technology. Provides guidance for how to use color measurement instrumentation, make a visual assessment, set a visual tolerance, and select a formulation Supplements material with numerical examples, graphs, and illustrations that clarify and explain complex subjects Expands coverage of topics including spatial vision, solid-state lighting, cameras and spectrophotometers, and translucent materials

This guide offers students a background and basic understanding of the biophysical bases of radiation, radiation safety standards and the key factors in radiation protection. A revised and expanded edition, the book's contents include: radiation dosimetry, basic physical principles, biological effects of radiation, criticality control and radiation surveillance. The author also highlights new findings on non-ionizing radiation (laser and microwaves), computer use in dose calculation and dose limit recommendations from the International Commission on Radiation Protection. It aims to provide students with a framework and practical introduction to scientific principles and the problem-solving approaches needed in daily radiation protection practice.

This provocative book makes a compelling case for reducing the number of workdays in a week to four. Globalization has brought with it fiercer competition and greater worker mobility, and as organizations compete for top talent, they are becoming more open to unconventional worker arrangements, such as remote working and flextime. International business expert, Robert Grosse, draws on scholarly research to construct an appealing argument for why the four-day workweek benefits both the organization and the employee. Research has demonstrated that longer work hours harm the individual and don't amount to a more effective organization, which begs the question: then why do it? The book goes beyond merely arguing that a reduced workweek is a good idea. It delves into why, explores the means for achieving it, and scrutinizes the barriers to getting there. This is a book for forward-thinking executives, leaders, and academics who understand that work-life balance is

the secret sauce not only for organizational success, but also for greater productivity and satisfaction in their careers and those of the people they manage.

Now in full color, Contemporary Orthodontics, 5th Edition is a practical resource with a long tradition of excellence. Line drawings and more than 1,000 new color images illustrate concepts more clearly than ever. This book includes detailed information on diagnosis, treatment planning concepts, related problems or controversies, and current treatment procedures, including the role of orthodontics in comprehensive treatment of patients with multiple problems. Updated material on psychosocial problems in orthodontic treatment, oral function, and the relationship between injury and dental disease. Case studies throughout the text highlight the demand for orthodontic treatment, the etiology of orthodontic problems, and treatment planning for cleft lip and palate patients.

"This handbook will help clinicians understand and use PRF in endodontics by discussing the science, clinical applications, and techniques for specialists and general practitioners"--

With more than 2,080 vibrant, full-color clinical photographs, this book presents the Italian Academy of Conservative Dentistry's authoritative coverage of endodontics, cosmetics, prosthodontics, traumatology, and general operative principles with unparalleled visual detail. This atlas-style resource guides you step-by-step through essential procedures and presents realistic case scenarios to help you deepen your understanding of restorative principles and successfully apply your knowledge to patient treatment. More than 2,200 world-class photographs provide rich clinical detail to enhance your understanding of commonly encountered conditions. Step-by-step procedures in each chapter are integrated with interesting case studies to clarify techniques and help you confidently apply concepts in the clinical setting. Summary boxes provide fast access to key chapter content. Clinical approach reflects the trusted expertise of the Accademia Italiana di Conservativa (Italian Academy of Conservative Dentistry) and familiarizes you with the latest scientific research and treatment techniques.

Over 1,500 high quality dental radiographs, full color photos, and illustrations clearly demonstrate core concepts and reinforce the essential principles and techniques of oral and maxillofacial radiology. updated Extensive coverage of all aspects of oral radiology for the entire predoctoral curriculum. NEW! Chapter Radiological Anatomy includes all radiological anatomy content allowing students to better visualize and understand normal appearances of structures on conventional and contemporary imaging, side-by-side. NEW! Chapter! Beyond 3D Imaging: introduces applications of 3D imaging such as stereolithic models. UPDATED Comprehensive coverage of diseases affecting the teeth and jaws, relating their pathogenesis to their key imaging features and image interpretation. NEW!

New editors Drs. Sanjay Mallya and Ernest Lam along with new contributors bring a fresh perspective on oral radiology. A wide array of radiographs including advanced imaging such as MRI and CT. An easy-to-follow format simplifies the key radiographic features of each pathologic condition, including location, periphery, shape, internal structure, and effects on surrounding structures are placed in context with clinical features, differential interpretation, and management. Expert contributors include many authors with worldwide reputations. Case studies apply imaging concepts to real-world scenarios.

Emerging during the late nineteenth century in the diverse scholarship of US commentators such as Charles Sanders Peirce, William James and John Dewey, American pragmatism shaped many intellectual currents within a range of disciplines including politics, education, administrative science and religion. Despite attracting attention and interest due to its conceptualization of theory, in terms of its practical consequences for improving the human condition, American pragmatism struggled to maintain its influence and suffered a hiatus until it experienced a renaissance within scholarly circles during the 1970s. While renewed interest in American pragmatism continues to grow, with some scholars distinguishing between classical, neo and new forms of pragmatism, it is only relatively recently that organization studies scholars have drawn upon American pragmatist philosophies for shedding new light on aspects of contemporary organizational life. This edited collection builds on this emergent literature in an engaging and scholarly manner. American Pragmatism and Organization is a ground-breaking collection and distinctive in its book-length treatment of American pragmatism as a relevant resource for analysing organisations. It draws together an international body of research focused on the interconnections and interplay between American pragmatism and organizational phenomena, explores the theoretical possibilities afforded by pragmatist thinking for understanding organization, and illuminates the practical advantages of doing so.

This new edition is a complete guide to paediatric dentistry for undergraduate and postgraduate dental students. Divided into nineteen sections, the book begins with an introduction to the specialty, oral examination, teeth identification and numbering, imaging, and growth and development of a child's face, mouth and teeth. The next chapters discuss diet and nutrition, plaque control and fluorides, and dental caries. Dental subspecialties including endodontics, orthodontics, restorative dentistry, periodontics, and surgery, each have their own dedicated sections. The concluding chapters cover oral pathology, forensics, lasers, dental advances, and research. The fourth edition has been fully revised to provide the latest information in the field and features many new topics including zirconia crowns, revascularisation and pulp regeneration, silver diamine fluoride, general anaesthesia, and presurgical nasoalveolar moulding in the management of cleft lip and palate. Key points Complete guide to paediatric dentistry for dental students Fully revised fourth edition with many new topics Highly illustrated with more than 1000 clinical photographs, diagrams and tables Previous edition (9789351522324) published in 2014

Identification of unknown individuals and the determination of their age, race, and sex is one of the most important functions of forensic dentistry. Throughout history, this procedure has been used to establish difficult identifications, including Adolph Hitler, Eva Braun, Lee Harvey Oswald, and actor William Holden. Other essential applications of forensic dentistry include mass disaster investigations, evaluating bite marks and bitemark evidence in death investigations, child abuse investiga-

tions, and in civil litigation for evaluating oral or temporomandibular injuries related to accidents. This book explains these procedures in a comprehensive way that takes you step-by-step through the world of forensic dental investigations. The areas of forensic dentistry have come a long way in recent years. New and unique discussions offer information that will benefit professionals faced with many of the current aspects of the science. Topics include how to deal with a trial or an aggressive attorney and how to assess buried crime scene evidence (the application of forensic geotaphonomy in forensic archaeology). Forensic Dentistry illustrates the proper handling and evaluation of dental evidence. Its broad coverage also includes important information for legal and police science professionals who must properly evaluate and present dental findings. This book covers all standard examination practices of dental evidence, including identification of unknown individuals (age, race, sex). Whether you are a medical examiner or a pathologist who needs to know about the proper handling and evaluation of dental evidence, a legal or police science professional who needs to know how to deal with the proper presentation of dental findings in a court of law, or a dentist who wants to use your training and experience in a unique, interesting, and challenging way, this book is for you!

The benchmark first edition of Forensic Radiology, published in 1998, was a milestone in the forensic community — a bestseller throughout the world and a standard reference for practitioners and educators alike. Like its predecessor, Brogdon's Forensic Radiology, Second Edition covers the entire scope of radiological applications in the forensic sciences, profiling current and anticipated uses of new modalities and techniques. Features: Provides an introduction to forensic radiology, including historical perspectives and definitions used in the field Offers instruction on trial preparation and effective courtroom testimony Demonstrates the use of forensic radiology in identification of the dead Explores the use of radiology to help in gunshot and abuse cases and in nonviolent crimes Contains an entirely new section on virtual imaging and virtopsy Examines technological and safety issues For radiologists, forensic scientists, forensic dentists, medical examiners, investigators, and attorneys Over the past twelve years, the fields of forensic science and radiology have developed considerably, necessitating a revision of this critical work. New Topics in this Edition include: The radiologist as an expert witness Modern cross-sectional imaging in anthropology New approaches to radiology in mass casualty situations The use of virtual imaging and virtopsy — new modalities developed and advanced since the publication of the last edition Forensic and clinical usage of x-rays in body packing for drug smuggling Imaging in the medical examiner's facility and in the field Radiology of special objects, antiquities, and mummies

Contains a list of all manufacturers and other specified processors of medical devices registered with the Food and Drug Administration, and permitted to do business in the U.S., with addresses and telephone numbers. Organized by FDA medical device name, in alphabetical order. Keyword index to FDA established standard names of medical devices.

- Enable all dentists, undergraduate and postgraduate students and those preparing for entrance examinations to understand the subject and procedures in Pedodontics in a much quicker and efficient manner. The essence of this book is quick understanding, reference and revision in minimum time.

Informatics in Medical Imaging provides a comprehensive survey of the field of medical imaging informatics. In addition to radiology, it also addresses other specialties such as pathology, cardiology,

dermatology, and surgery, which have adopted the use of digital images. The book discusses basic imaging informatics protocols, picture archiving and communication systems, and the electronic medical record. It details key instrumentation and data mining technologies used in medical imaging informatics as well as practical operational issues, such as procurement, maintenance, teleradiology, and ethics. Highlights Introduces the basic ideas of imaging informatics, the terms used, and how data are represented and transmitted Emphasizes the fundamental communication paradigms: HL7, DICOM, and IHE Describes information systems that are typically used within imaging departments: orders and result systems, acquisition systems, reporting systems, archives, and information-display systems Outlines the principal components of modern computing, networks, and storage systems Covers the technology and principles of display and acquisition detectors, and rounds out with a discussion of other key computer technologies Discusses procurement and maintenance issues; ethics and its relationship to government initiatives like HIPAA; and constructs beyond radiology The technologies of medical imaging and radiation therapy are so complex and computer-driven that it is difficult for physicians and technologists responsible for their clinical use to know exactly what is happening at the point of care. Medical physicists are best equipped to understand the technologies and their applications, and these individuals are assuming greater responsibilities in the clinical arena to ensure that intended care is delivered in a safe and effective manner. Built on a foundation of classic and cutting-edge research, Informatics in Medical Imaging supports and updates medical physicists functioning at the intersection of radiology and radiation.

Written specifically for dentists, White and Pharoah's Oral Radiology: Principles and Interpretation 8th Edition incorporates over 1,500 high-quality radiographic images and illustrations to demonstrate core concepts and essential principles and techniques of oral and maxillofacial radiology. The new edition of this bestselling book delivers with state-of-the-art information on oral radiology principles and techniques, and image interpretation. Dental student will gain a solid foundation in radiation physics, radiation biology, and radiation safety and protection before introducing including specialized techniques such as MRI and CT. As well, students will learn how to recognize the key radiographic features of pathologic conditions and interpret radiographs accurately. The 8th edition also includes new chapters on Radiologic Anatomy, Beyond 3D Imaging, and Diseases Affecting the Structure of Bone. A practical guide to using today's technology, this unique text helps your students provide state-of-the-art care! Over 1,500 high quality dental radiographs, full color photos, and illustrations clearly demonstrate core concepts and reinforce the essential principles and techniques of oral and maxillofacial radiology. Updated Extensive coverage of all aspects of oral and maxillofacial radiology includes the entire predoctoral curriculum. A wide array of radiographic images including advanced imaging such as MRI and CT. An easy-to-follow format simplifies the key radiographic features of each pathologic condition, including location, periphery, shape, internal structure, and effects on surrounding structures — placed in context with clinical features, differential diagnosis, and management. Expert contributors include many authors with worldwide reputations. Case studies apply imaging concepts to real-world scenarios. NEW! New editors Sanjay Mallya and Ernest Lam along with new contributors bring a fresh perspective on oral radiology. NEW! Chapter! Beyond 3D Imaging introduces applications of 3D imaging such as stereolithic models. NEW! Chapter Radiological Anatomy includes all radiological anatomy content allowing you to better visualize and under-

stand normal appearances of structures on conventional and contemporary imaging, side-by-side. NEW! Coverage of Diseases Affecting the Structure of Bone consolidated into one chapter to simplify foundational basic science information and its applications to radiologic interpretation.

Based on the Lectures given during the Ispra-Course held at the Centro de Formação Técnica, Lisbon, Portugal, October 23-27, 1989, in collaboration with the Laboratorio Nacional de Engenharia e Tecnologia

Accompanying CD-ROM contains ... "an 'average' template and larger and smaller 'normal' templates ... Also provided are instructions for the digital application of the templates to accommodate skulls of all sizes."--Page ix.

This book produces convincing evidence that exploiting the potential of space could help solve many environmental and social issues affecting our planet, such as pollution, overcrowding, resource depletion and conflicts, economic inequality, social unrest, economic instability and unemployment. It also touches on the legal problems that will be encountered with the implementation of the new technologies and new laws that will need to be enacted and new organizations that will need to be formed to deal with these changes. This proposition for a space economy is not science fiction, but well within the remit of current or under development technologies. Numerous technologies are described and put together to form a coherent and feasible road map that, if implemented, could lead humankind towards a brighter future.

Nothing can replace the sense of professional fulfillment and personal reward that comes from successfully restoring a patient's smile. This book, which serves as a complete primer on esthetic dentistry, is aimed at that precise reward. Informed by the latest scientific research and clinical evidence, the authors provide readers with keen insight into the artistic aspects essential to achieving a truly esthetic outcome. Preliminary chapters cover esthetic analysis, effective treatment planning, use of digital dental photography, and the importance of interdisciplinary collaboration. Further chapters outline effective treatment protocols, including the principles of ultraconservative restoration, tooth whitening, anterior and posterior all-ceramic restorations, in-office CAD/CAM technology, implant placement and soft tissue management in the esthetic zone, and the usage of minimally invasive procedures. This book, in its extensive knowledge and passionate voice, represents the union of function and beauty in dentistry, and in doing so, establishes itself as a comprehensive resource in the field of dental esthetics.

This book offers up-to-date information on all aspects of the use of lasers in endodontics, focusing especially on the various laser applications, including primary and permanent root canal therapies, re-treatments, apical surgery and pulp therapy. Every laser technique used in endodontics is carefully described and illustrated, with detailed coverage of both conventional methods and more recent developments such as laser-activated irrigation and photon-induced photoacoustic streaming. In addition, a separate section addresses the basic science of laser dentistry, explaining the physics, describing laser-tissue interactions, and discussing different types of laser. Extensive reference is made to the international literature in order to provide the reader with a clear, evidence-based understanding of the merits of various approaches. In offering a balanced mix of descriptions of clinical applications, clinical data, scientific research and logical criticism, the book will serve as an excellent

reference for a wide audience comprising general dentists as well as specialists.

William R. Proffitt, DDS, PhD; with Henry W. Fields, Jr., DDS, MSD, and 4 contributors Content includes basic and applied growth and development, biomechanics and basic orthodontic techniques, and clinical orthodontics.

Whenever radioactivity is released to the atmosphere, for example by the detonation of nuclear weapons or the testing of nuclear weapons or from nuclear reactor accidents that fraction of it which remains airborne for more than a few hours is liable to be attached to aerosol particles. The resulting radioactive aerosols are carried by atmospheric mixing processes until they settle out or are scavenged by precipitation. The radiation exposure pathway of maximum concern to humans is by inhalation of aerosols and their deposition in the respiratory tract. In this context, it is important to note that radioactive aerosols are commonly of natural origin also. In particular, the associated radionuclides can be of natural terrestrial origin, such as the decay products of radon gas, or they can be cosmogenic, such as beryllium-7. The exposure of miners of uranium and other ores and minerals to radon and its aerosol-borne decay products is of major significance. The book describes the formation of aerosols, their aerodynamic size distribution, their atmospheric residence time, their sampling and measurement, the range of radioactive aerosols found and studied thus far, including man-made nuclides and radon decay products and their interaction with man, including deposition in the lung and subsequent health effects. Advanced level science handbook for researchers, scientists and academics Covers all aspects of radiation exposure in humans, including subsequent health implications Presents the latest findings and analysis in this highly topical area

With more than 1,000 high-quality radiographs and illustrations, *Oral Radiology: Principles and Interpretation, 7th Edition* visually demonstrates the basic principles of oral and maxillofacial radiology along with their clinical application. First, you'll gain a solid foundation in radiation physics, radiation biology, and radiation safety and protection. Then you'll learn intraoral and extraoral imaging techniques, including specialized techniques such as MRI and CT. The second half of the book focuses on how to recognize the radiographic features of pathologic conditions and interpret radiographs accurately. This edition also includes new chapters on forensics and cone-beam imaging. Written by oral radiology experts Stuart White and Michael Pharoah, this bestselling book helps you provide state-

of-the-art care! An easy-to-follow format simplifies the key radiographic features of each pathologic condition, including location, periphery, shape, internal structure, and effects on surrounding structures - placed in context with clinical features, differential diagnosis, and management. UPDATED information addresses the etiology and diagnosis of diseases and pathologic conditions in the orofacial region. Updated coverage of all aspects of oral radiology includes the entire predoctoral curriculum. A wide array of radiographs including advanced imaging such as MRI and CT. Hundreds of drawings are updated and rendered in full color. Case studies apply imaging concepts to real-world scenarios. Expert contributors include many authors with worldwide reputations. Chapter bibliographies and suggested readings make it easier to conduct further research. NEW chapter on cone-beam imaging keeps you current with emerging field requirements. NEW coverage of cone beam computed tomography (CBCT) includes more of the normal anatomy of cross-sectional images of the maxilla and mandible along with variations of normal anatomy. NEW! An eBook version makes the content interactive and portable, and shows radiographs in high resolution.

In the past decades, the mainstream of microelectronics progression was mainly powered by Moore's law focusing on IC miniaturization down to nano scale. However, there is a fast increasing need for "More than Moore" (MtM) products and technology that are based upon or derived from silicon technologies, but do not simply scale with Moore's law. This book provides new vision, strategy and guidance for the future technology and business development of micro/nanoelectronics.

Contemporary Orthodontics, 6e: South Asia Edition-E-book

This new edition successfully combines elements of radiographic technique with interpretation information for readers. Five sections cover the concepts of radiologic imaging, radiographic techniques and procedures, special imaging techniques, radiation health, and assessment and interpretation. Based on the Oral and Maxillofacial Radiology guidelines published by the American Association of Dental Schools, this unique book features numerous high-quality photographs, radiographs, and line drawings. New information on digital radiography, radiation health, periodontal disease, and image assessment is included, as well as chapter review questions, case-based questions, and workshop and laboratory exercises. To help readers prepare for certification, sample multiple-choice and case-based questions for the National and State Board Certification Examinations are also included.