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KEY=ORTHOPHOS - ROY HEAVEN

THE HOSPITAL FOR SICK CHILDREN MANUAL OF PEDIATRIC TRAUMA

Lippincott Williams & Wilkins Written by physicians from Toronto's internationally renowned Hospital for Sick Children, this manual presents practical, evidence-based guidelines on the evaluation and management of a wide range of traumatic injuries in children. The authors' recommendations are based on their extensive clinical experience and reviews of the most recent literature, and presented in a concise, accessible format. Chapters are written in bulleted outline format and include boxed and highlighted "Trauma Pearls," as well as detailed and up-to-date algorithms and flow charts. Numerous illustrations and tables help the reader understand key points. Extensive reading lists appear at the end of each chapter.

CLINICAL DENTISTRY

ESSENTIALS OF DENTAL RADIOGRAPHY AND RADIOLOGY E-BOOK

Elsevier Health Sciences *Essentials of Dental Radiography and Radiology E-Book*

DENTAL ECONOMICS

THE INTERNATIONAL JOURNAL OF PERIODONTICS & RESTORATIVE DENTISTRY

WHITE AND PHAROAH'S ORAL RADIOLOGY E-BOOK

PRINCIPLES AND INTERPRETATION

Elsevier Health Sciences 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 understand 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.

HANDBOOK OF ENVIRONMENTAL ANALYSIS

CHEMICAL POLLUTANTS IN AIR, WATER, SOIL, AND SOLID WASTES, THIRD EDITION

CRC Press The Handbook will cover all aspects of environmental analysis and will examine the emergence of many new classes of pollutants in recent years. It will provide information on an array of topics from instrumentation, analytical techniques, and sample preparations to statistical calculations, chemical structures, and equations. It will present the tools and techniques required to measure a wide range of toxic pollutants in our environment. It will be fully revised throughout, and will add four new chapters (Microbial Analysis, Chlorophyll, Chlorine, Chloramines and Chlorine Dioxide, and Derivatization Reactions in Environmental Analysis).

THE ROOT CANAL ANATOMY IN PERMANENT DENTITION

Springer This book describes the most commonly methods used for the study of the internal anatomy of teeth and provides a complete review of the literature concerning the current state of research employing contemporary imaging tools such as micro-CT and CBCT, which offer greater accuracy whether using qualitative or quantitative approaches. In order to facilitate the management of complex anatomic anomalies, specific clinical protocols and valuable practical tips are suggested. In addition, supplementary material consisting in high-quality videos and images of different anatomies obtained using micro-CT technology is made available to the reader. The book was planned and developed in collaboration with an international team comprising world-recognized researchers and experienced clinicians with expertise in the field. It will provide the readers with a thorough understanding of canal morphology and its variations in all groups of teeth, which is a basic prerequisite for the success of endodontic therapy.

JOURNAL OF CLINICAL ORTHODONTICS

JCO.

ROOT PHYSIOLOGY: FROM GENE TO FUNCTION

Springer Science & Business Media In the last decade, enormous progress has been made on the physiology of plant roots, including on a wide range of molecular aspects. Much of that progress has been captured in the chapters of this book. Breakthroughs have been made possible through integration of molecular and whole-plant aspects. The classical boundaries between physiology, biochemistry and molecular biology have vanished. There has been a strong focus on a limited number of model species, including *Arabidopsis thaliana*. That focus has allowed greater insight into the significance of specific genes for plant development and functioning. However, many species are very different from *A. thaliana*, in that they are mycorrhizal, develop a symbiosis with N₂-fixing microsymbionts, or have other specialised root structures. Also, some have a much greater capacity to resist extreme environments, such as soil acidity, salinity, flooding or heavy-metal toxicities, due to specific adaptations. Research on species other than *A. thaliana* is therefore pivotal, to develop new knowledge in plant sciences in a comprehensive manner. This fundamental new knowledge can be the basis for

important applications in, e.g., agriculture and plant conservation. Although significant progress has been made, much remains to be learnt. It is envisaged that discoveries made in the recent past will likely lead to major breakthroughs in the next decade.

ORAL RADIOLOGY

PRINCIPLES AND INTERPRETATION

Mosby 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.

CORROSION IN REINFORCED CONCRETE STRUCTURES

Elsevier Reinforced concrete has the potential to be very durable and capable of withstanding a variety of adverse environmental conditions. However, failures in the structures do still occur as a result of premature reinforcement corrosion. In this authoritative book the fundamental aspects of this complex process are analysed; focusing on corrosion of the reinforcing steel, and looking particularly, at new scientific and technological developments. Monitoring techniques, including the newly developed online-monitoring, are examined, as well as the numerical methods used to simulate corrosion and perform parameter studies. The influence of composition and microstructure of concrete on corrosion behaviour is explored. The second half of the book, which deals with corrosion prevention methods, starts with a discussion on stainless steels as reinforcement materials. There are comprehensive reviews of the use of surface treatments and coatings, of the application of corrosion inhibitors and of the application of electrochemical techniques. In each case the necessary scientific fundamentals are explained and practical instances of use are looked at. This is an invaluable guide for engineers, materials scientists and researchers in the field of structural concrete. Fundamental aspects of corrosion in concrete are analysed in detail Explores how to minimise the effects of corrosion in concrete Invaluable guide for engineers, materials scientists and researchers in the field of structural concrete

PRINCIPLES OF FOOD CHEMISTRY

Westport, Conn. : Avi Publishing Company

PRETREATMENT IN CHEMICAL WATER AND WASTEWATER TREATMENT

PROCEEDINGS OF THE 3RD GOTHENBURG SYMPOSIUM 1988, 1.-3. JUNI 1988, GOTHENBURG

Springer Science & Business Media The International Gothenburg Symposia on Chemical Treatment have proven to be a unique platform for the exchange of ideas between theory and practice. They bring together administrators, engineers and scientists, who are concerned with water purification and wastewater treatment through precipitation, coagulation and subsequent solid/liquid separation. This volume contains the proceedings of the 3rd Symposium, focussing on Pretreatment. Pretreatment is understood as the scene total of all measures taken at the pollutant source to protect water supply, the sewerage system, the central treatment plant, and the aqueous environment. It is, where applicable, the most efficient measure in ecological and economic respects. The contributions of this third volume address questions of surveillance, automation and remote control of installations as well as the principles of legal, administrative and economic measures for regulations within the context of pretreatment. Special attention is given to the possibilities and limits of pretreatment of industrial discharges. Again it is the editors' privilege to acknowledge the invaluable help from the authors of this book. It is the editors' hope that they might convey the significance and potential of pretreatment in water supply, in industrial waste management and in municipal wastewater treatment and sludge handling.

MASTER GUIDE FOR PROFESSIONAL PHOTOGRAPHERS

Amherst Media From shooting basics to image editing, this textbook is an all encompassing reference that can be used by students in any level of photography class as well as those studying to complete the Certified Professional Photographer program. Beginning with an overview of camera choices and basic camera functions, this guide outlines the fundamentals of lighting equipment, light theory, composition, and digital imaging while providing a comprehensive roadmap for efficiently taking images from conception to client presentation. Tips for overcoming obstacles are offered from the hard-won advice of photographers who have successfully passed the Professional Photographer Certification Program tests.

RADIOLOGY FOR THE DENTAL PROFESSIONAL - E-BOOK

Elsevier Health Sciences A complete guide to radiology principles and techniques, *Radiology for the Dental Professional, 9th Edition* helps you develop imaging skills through practical application. Detailed step-by-step procedures demonstrate proper techniques; photos and illustrations improve comprehension and readability. Written by Herbert H. Frommer, DDS, and Jeanine J. Stabulas, RDH, BS, MPH, this book will help you interpret radiographs, and troubleshoot and prevent common errors. For students, it's an ideal introduction to radiology; for dental hygiene/assisting professionals, it's a great review! A logical organization starts with the basics and makes it easier to progress through the material. Procedures boxes show detailed radiography procedures with illustrations and photos to demonstrate proper techniques. Common Errors boxes explain mistakes in radiographic techniques and describe how they can be resolved. Advantages/Disadvantages boxes compare and contrast the good and bad elements of radiographic techniques. Detailed outlines and educational objectives at the beginning of each chapter identify the information that you are expected to learn. Key terms are listed at the beginning of each chapter and highlighted upon first mention in the text. Expanded coverage of digital imaging techniques. Patient Management and Special Problems chapter improves coverage of nervous patients, patients with special needs, pediatric patients, and specific problems such as endodontic issues and third molars. New illustrations depict techniques and show the latest technology.

MOLECULAR DERMATOLOGY

METHODS AND PROTOCOLS

Humana Press The sustained skin research efforts over the past decades has led to the accumulation of a significant collection of information on skin structure and physiology as well as on the pathogenesis of cutaneous diseases. In *Molecular Dermatology: Methods and Protocols*, leading experts in the field provide a collection of state-of-the-art reliable protocols covering a wide spectrum of techniques and experimental models, specific molecular assays and disease models, as well as overviews of diagnostic and research areas relevant to molecular dermatology. As a volume in the highly successful *Methods in Molecular Biology*™ series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Comprehensive and authoritative, *Molecular Dermatology: Methods and Protocols* emphasizes the vital importance of skin research and collects the methodologies necessary to aid scientists in moving forward in this valuable field.

MODELING AND MANAGING SHALLOW LAKE EUTROPHICATION

WITH APPLICATION TO LAKE BALATON

Springer Science & Business Media In the late 1970s. the adverse effects of man-made eutrophication became manifest in many countries. which explains. perhaps. why there was such a broad interest when the former Resources and Environment Area of the International Institute for Applied Systems

Analysis (IIASA) organized a workshop on the subject. There was such an enthusiasm among the participants that two further workshops were quickly organized. One on deep and the other on shallow lake eutrophication problems. The organization of these meetings was extremely stimulating, and the round table discussions among scientists from both West and East remain thought provoking for those who took part. The general feeling emerged that the complexity and multifaceted nature of the problem, even though perhaps not fully recognized at that time, clearly demanded a systems analysis approach. No wonder, then, that the request made by the Hungarian Member Organization of nASA to adopt Lake Balaton as a "real life laboratory" for an nASA case study fell on fertile ground. The more so since it appeared that shallow lake eutrophication had received less attention and was less well understood than that of deep lakes. And so the nASA Lake Balaton Case Study began, with the appointment of Gerrit van Straten as the first leader of the project.

DICTIONARY OF WATER AND WASTE MANAGEMENT

Elsevier *Water and waste management covers the design, building and operation of plants for water treatment and supply, sewerage, wastewater treatment and disposal, and solid waste treatment and disposal. Since the last edition in 2002 there has been an increasing importance on the issues reflecting climate change. This is particularly important when the result of this change must be 'managed' and 'controlled' to maintain an amenity such as water supply. This new edition includes many new entries on the topics of stormwater management and flood management, as well as the new EU Directives that cover this field. With over 7000 terms, this dictionary encompasses the most recent terminology on water and waste management. It is a handy reference for consultants, contractors and professional engineers as well as academics and students who need a quick definition to technical terms. Provides a handy reference for consultants, contractors and professional engineers as well as academics and students who need a quick definition to technical terms References US, UK and European standards, legislation and spelling providing a global relevance Offers detailed coverage of the terminology of Stormwater management and flood management not found elsewhere*

DICTIONARY OF CERAMIC SCIENCE AND ENGINEERING

Springer Science & Business Media *The third edition of the Dictionary of Ceramic Science and Engineering builds on the heavily revised 2nd edition which, in turn, expanded the original edition by some 4000 entries to include new fabrication, testing, materials, and vocabulary. The proven basis of the first two editions has been retained but new words and phrases have been added from the rapidly advancing electronic, nanoparticle and modern materials engineering fields. Additionally, all measurements in SI units are given to facilitate communication among the many sub-disciplines touched on by ceramics, ensuring that this publication remains the field's standard reference work for years to come. This extended edition of the Dictionary of Ceramic Science and Engineering ably follows its predecessors as an authoritative resource for students, researchers and professionals dealing with the processing of Materials.*

MINIMALLY INVASIVE SPINE SURGERY

A SURGICAL MANUAL

Springer Science & Business Media *In the past few years spine surgery has undergone revolutionary changes leading towards minimally invasive techniques. This book is a survey of microsurgical as well as endoscopic surgical techniques for the treatment of a variety of spinal disorders. The structure of the individual chapters includes terminology, history, surgical principles, advantages/disadvantages, indications, surgical technique, complications and hazards as well as results. However all chapters are focused on a very didactic presentation of surgical steps. Thus, the reader will get familiar with a variety of new techniques some of which are already integrated into clinical routine others still being part of ongoing clinical trials and development.*

ORTHODONTIC CEPHALOMETRY

Mosby Incorporated *Describes the theoretical basis of cephalometric radiography, methodology, limitations and sources of error, using radiographs and line diagrams. Orofacial anatomy and pathology, clinical applications and possible complications are also covered by the text, and case histories are presented.*

MAXILLOFACIAL CONE BEAM COMPUTED TOMOGRAPHY

PRINCIPLES, TECHNIQUES AND CLINICAL APPLICATIONS

Springer *The book provides a comprehensive description of the fundamental operational principles, technical details of acquiring and specific clinical applications of dental and maxillofacial cone beam computed tomography (CBCT). It covers all clinical considerations necessary for optimal performance in a dental setting. In addition overall and region specific correlative imaging anatomy of the maxillofacial region is described in detail with emphasis on relevant disease. Finally imaging interpretation of CBCT images is presented related to specific clinical applications. This book is the definitive resource for all who refer, perform, interpret or use dental and maxillofacial CBCT including dental clinicians and specialists, radiographers, ENT physicians, head and neck, and oral and maxillofacial radiologists.*

THE 2007 RECOMMENDATIONS OF THE INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION

USER'S EDITION

Sage Publications ABSTRACT -- *These revised Recommendations for a System of Radiological Protection formally replace the Commission's previous, 1990, Recommendations, and update, consolidate, and develop the additional guidance on the control of exposure from radiation sources issued since 1990. Thus, the present Recommendations update the radiation and tissue weighting factors in the quantities equivalent and effective dose and update the radiation detriment, based on the latest available scientific information of the biology and physics of radiation exposure. They maintain the Commission's three fundamental principles of radiological protection, namely justification, optimisation and the application of dose limits, clarifying how they apply to radiation sources delivering exposure and to individuals receiving exposure. The Recommendations evolve from the previous process-based protection approach using practices and interventions by moving to an approach based on the exposure situation. They recognise planned, emergency, and existing exposure situations, and apply the fundamental principles of justification and optimisation of protection to all of these situations. They maintain the Commission's current individual dose limits for effective dose and equivalent dose from all regulated sources in planned exposure situations. They re-inforce the principle of optimisation of protection, which should be applicable in a similar way to all exposure situations, subject to restrictions on individual doses and risks: dose and risk constraints for planned exposure situations, and reference levels for emergency and existing exposure situations. The Recommendations also include an approach for developing a framework to demonstrate radiological protection of the environment. Note: this edition does not contain Annex A and Annex B, which are available in the main edition ISBN 978-0-7020-3048-2.*

CHEMISTRY OF GROUND WATER IN THE SILVER SPRINGS BASIN, FLORIDA, WITH AN EMPHASIS ON NITRATE

MILLIONAIRE BY THIRTY

THE QUICKEST PATH TO EARLY FINANCIAL INDEPENDENCE

Hachette UK *The definitive, easy to understand and breakthrough guide on how young people can take their limited first income and turn it into a small fortune by the time they turn thirty from an expert financial planner. Most people know that there are 70 million Baby Boomers in America today....but what is less known is that there are approximately 100 million people in America between the ages of 16 and 30. This generation has just entered, or will soon be entering the work force. And they have no idea how to invest, save, or handle their money. Young people today come out of school having had little or no formal education on the basics of money management. Many have large debts from student loans looming over their heads. And many feel confused and powerless when their pricey educations don't translate into high paying jobs. They feel that their \$30,000-\$40,000 salary is too meager to bother with investing, and they constantly fear that there will be "too much month left at the end of their money." Douglas R. Andrew has shown the parents of this generation a different pathway to financial freedom. Now Doug and his sons, Emron and Aaron - both of whom are in their mid-20s - show the under-30 crowd how they can break from traditional 401k investment plans and instead can find a better way by investing in real estate, budgeting effectively, avoiding unnecessary taxes and using life insurance to create tax-free income. With the principles outlined in Millionaire by Thirty, recent graduates will be earning enough interest on their savings to meet their basic living expenses by the time they're 30. And by the time they're 35, their investments will be earning more money than they are, guaranteeing them a happy, wealthy future.*

THE AMERICAN ENCYCLOPÆDIC DICTIONARY**THE AMERICAN DICTIONARY AND CYCLOPEDIA**

A NEW AND EXHAUSTIVE WORK OF REFERENCE TO THE ENGLISH LANGUAGE, DEFINING OVER 250,000 WORDS, WITH A FULL ACCOUNT OF THEIR ORIGIN, PRONUNCIATION AND USE, COMPRISING A GENERAL ENCYCLOPEDIA ... A GAZETTEER AND ATLAS OF THE WORLD; A COMPREHENSIVE DICTIONARY OF UNIVERSAL BIOGRAPHY

THE NEW AMERICAN ENCYCLOPÆDIC DICTIONARY

AN EXHAUSTIVE DICTIONARY OF THE ENGLISH LANGUAGE, PRACTICAL AND COMPREHENSIVE; GIVING THE FULLEST DEFINITION (ENCYCLOPÆDIC IN DETAIL), THE ORIGIN, PRONUNCIATION AND USE OF WORDS ...

PRINCIPLES OF INTERNAL FIXATION OF THE CRANIOMAXILLOFACIAL SKELETON

Thieme Traditionally, each specialty involved in craniomaxillofacial trauma and orthognathic surgery had its own areas of interest and expertise. This introductory textbook is different in that it presents the combined and focused expertise and competence of the different specialties on the entire craniofacial skeleton. The principles described in this textbook represent the evolution of craniomaxillofacial buttress reconstruction over the last 60 years. In addition to standard procedures, techniques representing recent surgical advances and new developments are introduced as well. This textbook not only provides an overview on current concepts of craniomaxillofacial trauma care and orthognathic surgery, but also helps to understand the complexity of the craniofacial skeleton and its related soft tissues for an efficient and successful reconstruction of the face following trauma and congenital deformities.

HANDBOOK OF RADIOTHERAPY PHYSICS**THEORY AND PRACTICE**

CRC Press From background physics and biological models to the latest imaging and treatment modalities, the Handbook of Radiotherapy Physics: Theory and Practice covers all theoretical and practical aspects of radiotherapy physics. In this comprehensive reference, each part focuses on a major area of radiotherapy, beginning with an introduction by the editors and then subdividing into self-contained chapters. The first three parts present the fundamentals of the underlying physics, radiobiology, and technology involved. The ensuing sections discuss the support requirements of external beam radiotherapy, such as dose measurements, properties of clinical beams, patient dose computation, treatment planning, and quality assurance, followed by a part that explores exciting new advances that include developments in photon and particle therapy. Subsequent sections examine brachytherapy using sealed and unsealed sources and provide the framework of radiation protection, including an appendix that describes the detailed application of UK legislation. The final part contains handy tables of both physical constants and attenuation data. To achieve safe and effective radiotherapy, there needs to be a close understanding among various disciplines. With contributions from renowned specialists, the Handbook of Radiotherapy Physics: Theory and Practice provides essential theoretical and practical knowledge for medical physicists, researchers, radiation oncologists, and radiation technologists.

WHITE AND PHAROAH'S ORAL RADIOLOGY E-BOOK**PRINCIPLES AND INTERPRETATION: SECOND SOUTH ASIA EDITION E-BOOK**

Elsevier India 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.

SOURCES AND EFFECTS OF IONIZING RADIATION**UNSCAR 2008 REPORT TO THE GENERAL ASSEMBLY WITH SCIENTIFIC ANNEXES. SCIENTIFIC ANNEXES C, D AND E**

United Nations Publications

BASIC MACHINES AND HOW THEY WORK

Courier Corporation Only elementary math skills are needed to follow this manual, which covers many machines and their components, including hydrostatics and hydraulics, internal combustion engines, trains, and more. 204 black-and-white illustrations.

THE PHYSICS OF RADIOLOGY**ENVIRONMENTAL CHEMICAL ANALYSIS**

CRC Press The study of the environment requires the reliable and accurate measurement of extremely small quantities of chemicals and the ability to determine if they are pollutants or naturally occurring species. Historically, a "dilute and disperse" method of waste disposal has been accepted; yet as we learn the long-term consequences of such an approach, it is clear that more rigorous waste management techniques are necessary to understand the sources and fates of contaminants and to regulate their discharge. This volume presents the details of the basic analytical science involved in making these measurements. It concentrates on the basic principles of sampling and sample preparation, followed by the chemical principles of the major instrumental methods used in chemical analysis, and detailed discussions of the major environmental matrices. This book also provides coverage of topics usually only partially discussed in textbooks, such as quality assurance plans and statistical data handling. Students majoring in environmental sciences need a foundation in measurement techniques used in the field. Environmental Chemical Analysis gives students a thorough grounding in this field and enough information to judge the quality and interpret the information produced in the analytical laboratory.

BOLTON STANDARDS OF DENTOFACIAL DEVELOPMENTAL GROWTH**RADIOLOGICAL PROTECTION IN MEDICINE**

Sage Publications Abstract This report was prepared to underpin the Commission's 2007 Recommendations with regard to the medical exposure of patients, including their comforters and carers, and volunteers in biomedical research. It addresses the proper application of the fundamental principles (justification, optimisation of protection, and application of dose limits) of the Commission's 2007 Recommendations to these individuals. With regard to medical exposure of patients, it is not appropriate to apply dose limits or dose constraints, because such limits would often do more harm than good.

Often, there are concurrent chronic, severe, or even life-threatening medical conditions that are more critical than the radiation exposure. The emphasis is then on justification of the medical procedures and on the optimisation of radiological protection. In diagnostic and interventional procedures, justification of procedures (for a defined purpose and for an individual patient), and management of the patient dose commensurate with the medical task, are the appropriate mechanisms to avoid unnecessary or unproductive radiation exposure. Equipment features that facilitate patient dose management, and diagnostic reference levels derived at the appropriate national, regional, or local level, are likely to be the most effective approaches. In radiation therapy, the avoidance of accidents is a predominant issue. With regard to comforters and carers, and volunteers in biomedical research, dose constraints are appropriate. Over the last decade, the Commission has published a number of documents that provided detailed advice related to radiological protection and safety in the medical applications of ionising radiation. Each of the publications addressed a specific topic defined by the type of radiation source and the medical discipline in which the source is applied, and was written with the intent of communicating directly with the relevant medical practitioners and supporting medical staff. This report consolidates that advice.

ESSENTIALS OF DENTAL RADIOGRAPHY FOR DENTAL ASSISTANTS AND HYGIENISTS

Prentice Hall

THE ANATOMY OF THE ROOT-CANALS OF THE TEETH OF THE PERMANENT DENTITION

Wurzelkanal / Anatomie