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Successfully consolidates certain topics and eliminates unnecessary detail which can otherwise obscure basic concepts and applied principles. Organized so as to better delineate chapters which could be used for individual courses or as supplement materialfor such courses, this new text includes problems and review questions, chapter synopses and objectives, important formulas and concepts at the end of each chapter, and much more. Math applications will be better explained, too.

Since the early 1960's, the field of medical imaging has experienced explosive growth due to the development of three new imaging modalities-radionuclide imaging, ultrasound, and magnetic resonance imaging. Along with X-ray, they are among the most important clinical diagnostic tools in medicine today. Additionally, the digital revolution has played a major role in this growth, with advances in computer and digital technology and in electronics making fast data acquisition and mass data storage possible. This text provides an introduction to the physics and instrumentation of the four most often used medical imaging techniques. Each chapter includes a discussion of recent technological developments and the biological effects of the imaging modality. End-of-chapter problem sets, lists of relevant references, and suggested further reading are presented for each technique. X-ray imaging, including CT and digital radiography Radionuclide imaging, including SPECT and PET Ultrasound imaging Magnetic resonance imaging

Learn the professional and patient care skills you need for clinical practice! A clear, concise introduction to the imaging sciences, Introduction to Radiologic Sciences and Patient Care meets the standards set by the American Society of Radiologic Technologists (ASRT) Curriculum Guide and the American Registry of Radiologic Technologists (ARRT) Task List for certification examinations. Covering the big picture, expert authors Arlene M. Adler and Richard R. Carlton provide a complete overview of the radiologic sciences professions and of all aspects of patient care. More than 300 photos and line drawings clearly demonstrate patient care procedures. Step-by-step procedures make it easy to follow learn skills and prepare for clinicals. Chapter outlines and objectives help you master key concepts. Key Terms with definitions are presented at the beginning of each chapter. Up-to-date references are provided at the end of each chapter. Appendices prepare you for the practice environment by including practice standards, professional organizations, state licensing agencies, the ARRT code of ethics, and patient's rights information. 100 new photos and 160 new full-color line drawings show patient care procedures. Updates ensure that you are current with the Fundamentals and Patient Care sections of the ASRT core curriculum guidelines. New and expanded coverage is added to the chapters on critical thinking, radiographic imaging, vital signs, professional ethics, and medical law. Student resources on a companion Evolve website help you master procedures with patient care lab activities and review questions along with 40 patient care videos.

Successfully consolidates certain topics and eliminates unnecessary detail which can otherwise obscure basic concepts and applied principles. Organized so as to better delineate chapters which could be used for individual courses or as supplement materialfor such courses, this new text includes problems and review questions, chapter synopses and objectives, important formulas and concepts at the end of each chapter, and much more. Math applications will be better explained, too.

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Colour imaging technology has become almost ubiquitous in modern life in the form of monitors, liquid crystal screens, colour printers, scanners, and digital cameras. This book is a comprehensive guide to the scientific and engineering principles of colour imaging. It covers the physics of light and colour, how the eye and physical devices capture colour images, how colour is measured and calibrated, and how images are processed. It stresses physical principles and includes a wealth of real-world examples. The book will be of value to scientists and engineers in the colour imaging industry and, with homework problems, can also be used as a text for graduate courses on colour imaging.