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FIFTEENTH EDITION
VOLUME ONE

MERRILL'S ATLAS OF
RADIOGRAPHIC
POSITIONING
& PROCEDURES



JEANNEAN HALL ROLLINS
BRUCE W. LONG
TAMMY CURTIS



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Radiographic Anatomy And Positioning To Accompany Merrills Atlas

Steven G. Hayes



Radiographic Anatomy And Positioning To Accompany Merrills Atlas:

Radiographic Anatomy and Positioning Workbook Steven G. Hayes, 1996 **Workbook for Merrill's Atlas of Radiographic Positioning and Procedures E-Book** Jeannean Hall Rollins, Bruce W. Long, Tammy Curtis, 2021-12-21

Reinforce your understanding of radiographic positioning and procedures with this practical workbook Corresponding to the content in Merrill's Atlas of Radiographic Positioning Procedures 15th Edition this workbook helps you review and practice essential radiographic terminology anatomy and positioning concepts Exercises include multiple choice and matching questions imaging evaluation and more Written by the textbook's authors this workbook prepares you for success on the ARRT certification exam and in clinical radiography practice Anatomy exercises reinforce your understanding with multiple choice matching and short answer questions labeling and identification diagrams and crossword puzzles Positioning exercises include multiple choice matching short answer true false and fill in the blank questions labeling and identification diagrams and comparisons of standard radiographic projections Exercises on identifying errors in radiographs prepare you to evaluate radiographs in clinical situations Pathology exercises help you understand which projections will best demonstrate various pathologies Self tests at the end of each chapter include review questions enabling you to assess your comprehension and measure your own progress NEW Updated drawings and radiographic images reflect the content updates in the Merrill's Atlas of Radiographic Positioning Procedures 15th Edition text NEW exercises reflect the latest changes to the American Registry of Radiologic Technologists ARRT examination [Workbook for Merrill's Atlas of Radiographic Positioning and Procedures - E-Book](#) Bruce W. Long, Jeannean Hall Rollins, Barbara J. Smith, Tammy Curtis, 2015-01-08 Get the most out of your Merrill's Radiographic Atlas with the Workbook for Merrill's Atlas of Radiographic Positioning and Procedures 13th Edition Providing plenty of review and practice of the concepts found in the atlas this workbook contains a wide variety of exercises including labeling anatomy identification short answer multiple choice matching true and false fill in the blank error identification and more that focus on the essential terminology anatomy and positioning information you need to pass the ARRT exam and thrive in the clinical environment Correlation with main Merrill's Radiographic Atlas features exercises that support the digital positioning content in the atlas Wide variety of exercises holds user's interest and provides a variety of interaction with the content Exercises on identifying errors on radiographs prepare users to evaluate radiographs in clinical situations Anatomy and positioning exercises provide balanced coverage of both topics Abundance of labeling exercises ensures users recognize anatomical structures on actual radiographs Comprehensive self test at the end of each chapter enable users to accurately gauge their comprehension of the material and measure their own progress Pathology exercises helps users understand which projections will best demonstrate various pathologies NEW New images reflect all the content updates in the main Merrill's text NEW Detailed review exercises that cover osteology anatomy physiology arthrology and radiographic examinations NEW Additional images for identifying essential projections **Workbook for**

Merrill's Atlas of Radiographic Positioning and Procedures - E-Book Eugene Frank, Tammy Curtis, Bruce

Long, 2014-04-14 You already have the most comprehensive and authoritative radiography text available now make sure you're getting the most out of it The Workbook for Merrill's Atlas of Radiographic Positioning and Procedures 12th Edition provides plenty of practice and review of concepts presented in the atlas helping you learn faster and retain essential information Authors Eugene Frank Bruce Long Barbara Smith and Jeannean Hall Rollins concentrate on the essential terminology anatomy and positioning information needed to ensure that you'll be ready to take the ARRT exam and be thoroughly prepared for the clinical environment Retains the features that have made this workbook so popular with Merrill's users anatomy labeling exercises short answer and multiple choice questions matching exercises true false fill in the blanks identifying structures on radiographs identifying proper patient positioning and self tests Provides a thorough review of osteology anatomy physiology and radiographic procedures all in close correlation with Merrill's Atlas for optimum learning support Offers a wide variety of exercises and other opportunities to interact with the content Ensures that you can recognize anatomical structures on actual radiographs with an abundance of labeling exercises Helps you understand which projections will best demonstrate various pathologies Contains a comprehensive self test at the end of every chapter so you can accurately gauge your understanding of the material and measure your own progress Features exercises that support new digital positioning content in the Atlas Prepares you for evaluating radiographs in clinical situations with new exercises on identifying errors on radiographs

Radiographic Anatomy, Positioning, and Procedures Workbook Steven G.

Hayes, 1999 The new edition of this 2 volume workbook retains the features that made it so popular in its first edition anatomy labeling exercises positioning exercises self tests and an answer key The exercises include labeling of anatomy on line drawings and on radiographs crossword puzzles matching short answer and true false At the end of each chapter is a multiple choice test to help students assess their comprehension of the whole chapter New questions on Computed Radiography CR including the slight positioning changes and the kVp setting changes necessary for CR Each chapter contains Review Self Test exercises enabling students to gauge their comprehension of the material More film evaluations give the student additional opportunities to evaluate images for proper positioning More positioning questions have been added to complement the workbooks strong anatomy review The exercises are sequenced in the order of Merrill's Atlas of Radiography and the MRIS media allowing student to easily follow along with the audio visual presentation

Radiographic Anatomy, Positioning, and Procedures Workbook Steven G. Hayes, 2003 Popular in its earlier editions this two volume workbook set continues to provide practice and review of the vital concepts presented in Merrill's Atlas A concentration on terminology anatomy and positioning information make this set a must have for new radiography students heading into the clinical setting Includes a wealth of illustrations to enhance retention as well as exercises on anatomy labeling and positioning self tests and an answer key Exercises provide a thorough review of anatomy and radiographic procedures Serves

as an ideal companion for review of the essential concepts of Merrill's Atlas. Uses a variety of exercises to reinforce anatomy and radiographic positioning. Includes labeling and identifying short answer and multiple choice questions, matching exercises, crosswords, true/false questions, and fill in the blanks. Thoroughly prepares beginning radiographers for the clinical environment. Features a wealth of illustrations to aid comprehension of essential concepts. New exercises cover radiographic pathology. Includes improved sequencing of exercises to correlate with the latest edition of Merrill's Atlas. Features more patient positioning exercises with photos. Presents additional exercises in the revised chapter on Trauma Radiography.

Radiology Online Kenneth L. Bontrager, 2004-04-15 Mosby's Radiography Online MRO is a series of online course supplements designed to cover portions of the radiography curriculum. Available for Evolve Blackboard or WebCT, these online companions offer a wide range of auditory and visual elements and various interactivities to amplify text content, synthesize concepts presented in the text, provide multiple activities for reinforcement of learning, and demonstrate the practical application of key concepts. Available installments of this outstanding online resource currently include Radiologic Physics, Radiographic Imaging, Radiobiology and Radiation Protection, Anatomy and Positioning to Accompany Merrill's Atlas of Radiographic Positions and Radiologic Procedures by Ballinger, Frank, Anatomy and Positioning to Accompany Textbook of Radiographic Positioning and Related Anatomy by Bontrager. Designed to work in conjunction with Bontrager's Textbook of Radiographic Positioning and Related Anatomy, this online course supplement enhances students' understanding of anatomy and positioning by providing a well-developed range of media-rich assets such as animations with audio narrations, self-assessment reviews, and interactive activities. This unique program promotes problem-based learning and encourages critical thinking that is essential in the clinical setting. Used in conjunction with the text, this online supplement offers greater learning opportunities than the text alone while accommodating diverse learning styles and environments. Course management tools available in Evolve Blackboard and WebCT versions offer a variety of student and instructor communications options and instructor administrative tools such as real-time chat, class calendar, e-mail connections, bulletin board, digital dropbox, discussion boards, instructor syllabus, gradebook, and more. Animations and slide shows with audio narration demonstrate positioning procedures and communicate complex concepts. Case studies, film evaluations, and a variety of interactive exercises including matching, multiple choice with rationales, labeling, and short answer reinforce learning and keep students involved. Anatomy and articulation reviews following an assigned reading from the text present a series of self-assessment labeling exercises that check students' understanding before proceeding to the next section. Special situations frequently encountered in the clinical environment are presented with narrated animations, slide shows, and clinical situations requiring student response. Film evaluations present radiographic images showing positioning and technical errors with questions to promote critical thinking and interactive learning. Learning Links direct students to related sites on the Internet and pose questions related to the link. A summary Capstone module draws together information presented in the

other modules for a series of interactive case scenarios involving multiple regions of the body for students to assess evaluate and solve Self assessment quizzes offer pre and post testing that enables students to assess their own learning needs before taking the exam Exams are automatically scored and reported to the instructor s gradebook Merrill's Atlas of Radiographic Positioning and Procedures Bruce W. Long, Jeannean Hall Rollins, Barbara J. Smith, 2015-02-25 More than 400 projections make it easier to learn anatomy properly position the patient set exposures and take high quality radiographs With Merrill s Atlas of Radiographic Positioning Procedures 13th Edition you will develop the skills to produce clear radiographic images to help physicians make accurate diagnoses It separates anatomy and positioning information by bone groups or organ systems using full color illustrations to show anatomical anatomy and CT scans and MRI images to help you learn cross section anatomy Written by radiologic imaging experts Bruce Long Jeannean Hall Rollins and Barbara Smith Merrill s Atlas is not just the gold standard in radiographic positioning references and the most widely used but also an excellent review in preparing for ARRT and certification exams UNIQUE Collimation sizes and other key information are provided for each relevant projection Comprehensive full color coverage of anatomy and positioning makes Merrill s Atlas the most in depth text and reference available for radiography students and practitioners Coverage of common and unique positioning procedures includes special chapters on trauma surgical radiography geriatrics pediatrics and bone densitometry to help prepare you for the full scope of situations you will encounter Numerous CT and MRI images enhance your comprehension of cross sectional anatomy and help you prepare for the Registry examination Bulleted lists provide clear instructions on how to correctly position the patient and body part when performing procedures Summary tables provide quick access to projection overviews guides to anatomy pathology tables for bone groups and body systems and exposure technique charts Frequently performed projections are identified with a special icon to help you focus on what you need to know as an entry level radiographer NEW Coverage of the latest advances in digital imaging also includes more digital radiographs with greater contrast resolution of pertinent anatomy NEW positioning photos show current digital imaging equipment and technology UPDATED coverage addresses contrast arthrography procedures trauma radiography practices plus current patient preparation contrast media used and the influence of digital technologies UPDATED Pediatric Imaging chapter addresses care for the patient with autism strategies for visit preparation appropriate communication and environmental considerations UPDATED Mammography chapter reflects the evolution to digital mammography as well as innovations in breast biopsy procedures UPDATED Geriatric Radiography chapter describes how to care for the patient with Alzheimer s Disease and other related conditions **Merrill's Atlas of Radiographic Positioning and Procedures - E-Book** Bruce W. Long, Jeannean Hall Rollins, Barbara J. Smith, 2015-01-01 With more than 400 projections presented Merrill s Atlas of Radiographic Positioning and Procedures remains the gold standard of radiographic positioning texts Authors Eugene Frank Bruce Long and Barbara Smith have designed this comprehensive resource to be both an excellent textbook

and also a superb clinical reference for practicing radiographers and physicians You ll learn how to properly position the patient so that the resulting radiograph provides the information needed to reach an accurate diagnosis Complete information is included for the most common projections as well as for those less commonly requested UNIQUE Collimation sizes and other key information are provided for each relevant projection Comprehensive full color coverage of anatomy and positioning makes Merrill s Atlas the most in depth text and reference available for radiography students and practitioners Coverage of common and unique positioning procedures includes special chapters on trauma surgical radiography geriatrics pediatrics and bone densitometry to help prepare you for the full scope of situations you will encounter Numerous CT and MRI images enhance your comprehension of cross sectional anatomy and help you prepare for the Registry examination Bulleted lists provide clear instructions on how to correctly position the patient and body part when performing procedures Summary tables provide quick access to projection overviews guides to anatomy pathology tables for bone groups and body systems and exposure technique charts Frequently performed projections are identified with a special icon to help you focus on what you need to know as an entry level radiographer Includes a unique new section on working with and positioning obese patients Offers coverage of one new compensating filter Provides collimation sizes and other key information for each relevant projection Features more CT and MRI images to enhance your understanding of cross sectional anatomy and prepare you for the Registry exam Offers additional digital images in each chapter including stitching for long length images of the spine and lower limb Standardized image receptor sizes use English measurements with metric in parentheses Depicts the newest equipment with updated photographs and images

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procedural chapter offer general chapter overviews and serve as handy study guides Bulleted lists provide clear instructions on how to correctly position the patient and body part Anatomy summary tables at the beginning of each positioning chapter describe and identify the anatomy you need to know in order to properly position the patient set exposures and take high quality radiographs Anatomy and positioning information is presented in separate chapters for each bone group or organ system all heavily illustrated in full color and augmented with CT scans and MRI images to help you learn both traditional and cross sectional anatomy Includes a unique new section on working with and positioning obese patients Offers coverage of one new compensating filter Provides collimation sizes and other key information for each relevant projection Features more CT and MRI images to enhance your understanding of cross sectional anatomy and prepare you for the Registry exam Offers additional digital images in each chapter including stitching for long length images of the spine and lower limb Standardized image receptor sizes use English measurements with metric in parentheses Depicts the newest equipment with updated photographs and images

Merrill's Atlas of Radiographic Positioning and Procedures - 3-Volume Set - E-Book Jeannean Hall Rollins,Tammy Curtis,2024-10-19 Selected for 2025 Doody's Core Titles with Essential Purchase designation in Radiologic Technology Learn and perfect your positioning skills with the leading radiography text and clinical reference Merrill's Atlas of Radiographic Positioning and Procedures Sixteenth Edition describes how to position patients properly set exposures and produce the quality radiographs needed to make accurate diagnoses Guidelines to both common and uncommon projections prepare you for every kind of patient encounter Anatomy and positioning information is organized by bone group or organ system and coverage of special imaging modalities includes CT MRI sonography radiation therapy and more The gold standard in imaging Merrill's Atlas covers all procedures in the ASRT radiography curriculum and prepares you for the ARRT exam NEW Respiration heading emphasizes the importance of proper breathing instructions for maximizing image quality NEW Patient positioning photos enhance chapters on the chest abdomen pelvis and hip bony thorax upper extremity and lower extremity NEW and UPDATED Additional figures and content in special imaging modality chapters represent current practice protocols safety measures and technology in pediatric imaging computed tomography magnetic resonance imaging diagnostic medical sonography mammography molecular imaging nuclear medicine and radiation oncology UPDATED Unit values expressed as SI units with traditional units provided in parentheses match the format used in imaging technical texts and the ARRT exam UPDATED Gonadal shielding guidelines align with current clinical practice UPDATED Collimation field sizes and image receptor sizes are simplified for enhanced clinical relevance STREAMLINED Rounded decimal values replace fractions throughout the text Comprehensive full color coverage of anatomy and positioning makes Merrill's Atlas the most in depth text and reference available for radiography students and practitioners Guidelines to each projection include a photograph of a properly positioned patient and information on patient position part position respiration central ray angulation collimation kVp values structures shown and evaluation criteria

Diagnostic quality radiograph for each projection demonstrates the result the radiographer is trying to achieve Coverage of common and unique positioning procedures includes chapters on trauma mobile surgical radiography geriatrics and pediatrics to help prepare you for the full scope of situations you will encounter Numerous CT and MRI images enhance comprehension of cross sectional anatomy and help in preparing for the Registry examination Merrill's Atlas of Radiographic Positions and Radiologic Procedures Philip W. Ballinger, Eugene D. Frank, 1999 This Golden Anniversary Edition of Merrill's Atlas has been completely revised with full color throughout The 3 volume set covers anatomy and positioning for all bone groups and body systems in the first two volumes then presents special imaging topics and modalities in the third volume Includes special icon to identify essential projections to help students and instructors focus on the most important material that students must master Features diagnostic quality radiograph reproduction which assures that the reader can visualize what the radiograph is intended to demonstrate Provides summary of projections tables which list all the projections described in the chapter to give a general overview of the chapter and also to serve as a study guide for students Includes bulleted step by step instructions to help the reader quickly understand how to perform a procedure Presents over 400 projections making it the most comprehensive text and reference on the market invaluable as a student text as well as a practical reference after graduation Spanish version of previous edition also available ISBN 84 8174 174 4 **Anatomy and Positioning** Kenneth L. Bontrager, 2004-01-01 Mosby's Radiography Online MRO is a series of online course supplements designed to cover portions of the radiography curriculum Available for Evolve Blackboard or WebCT these online companions offer a wide range of auditory and visual elements and various interactivities to amplify text content synthesize concepts presented in the text provide multiple activities for reinforcement of learning and demonstrate the practical application of key concepts Available installments of this outstanding online resource currently include Radiologic Physics Radiographic Imaging Radiobiology and Radiation Protection Anatomy and Positioning to Accompany Merrill's Atlas of Radiographic Positions and Radiologic Procedures by Ballinger Frank Anatomy and Positioning to Accompany Textbook of Radiographic Positioning and Related Anatomy by Bontrager Designed to work in conjunction with Bontrager's Textbook of Radiographic Positioning and Related Anatomy this online course supplement enhances students understanding of anatomy and positioning by providing a well developed range of media rich assets such as animations with audio narrations self assessment reviews and interactive activities This unique program promotes problem based learning and encourages critical thinking that is essential in the clinical setting Used in conjunction with the text this online supplement offers greater learning opportunities than the text alone while accommodating diverse learning styles and environments This package includes the User Guide and Access Code for Mosby's Radiography Online Anatomy Positioning as well as the text and workbooks lab manuals for Bontrager Textbook of Radiographic Positioning and Related Anatomy 5th edition Course management tools available in Evolve Blackboard and WebCT versions offer a variety of student and instructor communications options and instructor

administrative tools such as real time chat class calendar e mail connections bulletin board digital dropbox discussion boards instructor syllabus gradebook and more Animations and slide shows with audio narration demonstrate positioning procedures and communicate complex concepts Case studies film evaluations and a variety of interactive exercises including matching multiple choice with rationales labeling and short answer reinforce learning and keep students involved Anatomy and articulation reviews following an assigned reading from the text present a series of self assessment labeling exercises that check students understanding before proceeding to the next section Special situations frequently encountered in the clinical environment are presented with narrated animations slide shows and clinical situations requiring student response Film evaluations present radiographic images showing positioning and technical errors with questions to promote critical thinking and interactive learning Learning Links direct students to related sites on the Internet and pose questions related to the link A summary Capstone module draws together information presented in the other modules for a series of interactive case scenarios involving multiple regions of the body for students to assess evaluate and solve Self assessment quizzes offer pre and post testing that enables students to assess their own learning needs before taking the exam Exams are automatically scored and reported to the instructor s gradebook

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photographs and images *Merrill's Atlas of Radiographic Positioning and Procedures E-Book* Bruce W. Long, Jeannean Hall Rollins, Barbara J. Smith, 2018-11-25 With more than 400 projections Merrill's Atlas of Radiographic Positioning Procedures 14th Edition makes it easier for you to learn anatomy properly position the patient set exposures and take high quality radiographs This definitive text has been reorganized to align with the ASRT curriculum helping you develop the skills to produce clear radiographic images It separates anatomy and positioning information by bone groups or organ systems using full color illustrations to show anatomical anatomy and CT scans and MRI images to help in learning cross section anatomy Merrill's Atlas is not just the gold standard in radiographic positioning texts and the most widely used but also an excellent review in preparing for ARRT and certification exams Comprehensive full color coverage of anatomy and positioning makes Merrill's Atlas the most in depth text and reference available for radiography students and practitioners Frequently performed essential projections identified with a special icon to help you focus on what you need to know as an entry level radiographer Summary of Pathology table now includes common male reproductive system pathologies Coverage of common and unique positioning procedures includes special chapters on trauma surgical radiography geriatrics pediatrics and bone densitometry to help prepare you for the full scope of situations you will encounter Collimation sizes and other key information are provided for each relevant projection Numerous CT and MRI images enhance comprehension of cross sectional anatomy and help in preparing for the Registry examination UPDATED Positioning photos show current digital imaging equipment and technology Summary tables provide quick access to projection overviews guides to anatomy pathology tables for bone groups and body systems and exposure technique charts Bulleted lists provide clear instructions on how to correctly position the patient and body part when performing procedures NEW Updated content in text reflects continuing evolution of digital image technology NEW Updated positioning photos illustrate the current digital imaging equipment and technology lower limb scoliosis pain management swallowing dysfunction NEW Added digital radiographs provide greater contrast resolution for improved visualization of pertinent anatomy NEW Revised positioning techniques reflect the latest ASRT standards **Merrill's Atlas of Radiographic Positioning and Procedures - E-Book** Bruce W. Long, Jeannean Hall Rollins, Barbara J. Smith, 2015-01-01 More than 400 projections make it easier to learn anatomy properly position the patient set exposures and take high quality radiographs With Merrill's Atlas of Radiographic Positioning Procedures 13th Edition you will develop the skills to produce clear radiographic images to help physicians make accurate diagnoses It separates anatomy and positioning information by organ systems using full color illustrations to show anatomical anatomy and CT scans and MRI images to help you learn cross section anatomy Written by radiologic imaging experts Bruce Long Jeannean Hall Rollins and Barbara Smith Merrill's Atlas is not just the gold standard in radiographic positioning references and the most widely used but also an excellent review in preparing for ARRT and certification exams Comprehensive full color coverage of anatomy and positioning makes Merrill's Atlas the most in depth text and reference

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Merrill's Atlas of Radiographic Positioning & Procedures: Preliminary Steps in Radiography Jeannean Hall Rollins, Bruce W. Long, Tammy Curtis, 2023 This 15th Edition helps you learn to position patients properly set exposures and produce the clear radiographs needed to make accurate diagnoses Guidelines to both common and uncommon projections prepare you for every kind of patient encounter Anatomy and positioning information is organized by bone group or organ system and coverage of special imaging modalities includes CT MRI sonography radiation therapy and more Written by noted educators Jeannean Hall Rollins Bruce Long and Tammy Curtis Merrill's Atlas is not just the gold standard in imaging it also prepares you for the ARRT exam

Radiographic Anatomy, Positioning and Procedures Steven G. Hayes, 2003-02 Popular in its earlier editions this two volume workbook set continues to provide practice and review of the vital concepts presented in Merrill's Atlas A concentration on terminology anatomy and positioning information make this set a must have for new radiography students heading into the clinical setting Includes a wealth of illustrations to enhance retention as well as exercises on anatomy labeling and positioning self tests and an answer key Exercises provide a thorough review of anatomy and radiographic procedures Serves as an ideal companion for review of the essential concepts of Merrill's Atlas Uses a variety of exercises to reinforce anatomy and radiographic positioning Includes labeling and identifying short answer and multiple choice questions matching exercises crosswords true false questions and fill in the blanks Thoroughly prepares beginning radiographers for the clinical environment Features a wealth of illustrations to aid comprehension of essential concepts New exercises cover radiographic pathology Includes improved sequencing of exercises to correlate with the latest edition of Merrill's Atlas Features more patient positioning exercises with photos Presents additional exercises in the revised chapter on Trauma Radiography

[Mosby's Radiography Online: Anatomy and Positioning for Merrill's Atlas of Radiographic Positioning & Procedures \(Access Code\)](#) Bruce W. Long, Jeannean Hall Rollins, Barbara J. Smith, 2019-02 Corresponding to the content in Merrill's Atlas of Radiographic Positioning Procedures 14th

Edition Mosby's Radiography Online reinforces your understanding of anatomy and positioning. This online course enhances interactive learning and helps you to develop the critical thinking skills needed in the clinical setting. Difficult anatomy and positioning concepts are brought to life through narrated animations, slide shows, and image evaluations, providing learning opportunities that are impossible to achieve in a static textbook alone.

Whispering the Secrets of Language: An Psychological Quest through **Radiographic Anatomy And Positioning To Accompany Merrills Atlas**

In a digitally-driven world where displays reign great and instant conversation drowns out the subtleties of language, the profound techniques and emotional nuances hidden within phrases often get unheard. However, nestled within the pages of **Radiographic Anatomy And Positioning To Accompany Merrills Atlas** a fascinating literary treasure sporting with fresh emotions, lies an extraordinary journey waiting to be undertaken. Written by a talented wordsmith, that wonderful opus invites readers on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within the very cloth of each word. Within the emotional depths of the touching review, we shall embark upon a genuine exploration of the book is core themes, dissect their captivating publishing type, and fail to the effective resonance it evokes deep within the recesses of readers hearts.

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Radiographic Anatomy And Positioning To Accompany Merrills Atlas Introduction

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