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Titolo	Whole Body Computed Tomography Angiography / / edited by Longjiang Zhang, Guangming Lu
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Descrizione fisica	1 online resource (619 pages)
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Principle and technique of multidetector CT -- Image postprocessing and data analysis of CT angiography -- Strategies for CTA Radiation Dose Optimization -- Principle of contrast material usage in CT angiography -- Cerebral CT angiography -- Carotid CT angiography -- Pulmonary CT angiography -- Thoracic aortic CT angiography -- Coronary CT angiography -- Abdominal aortic CT angiography -- Hepatic CT angiography -- Spleen CT angiography -- Mesentery CT angiography -- Pancreatic CT angiography -- Renal CT angiography -- Lower extremity CT angiography -- Upper extremity CT angiography -- Superior vena cava CT venography -- Inferior vena cava CT venography -- Spinal CT angiography -- Pediatrics CT angiography.
Sommario/riassunto	This book provides an in-depth exploration of CT angiography (CTA), covering fundamental principles, clinical applications, and recent advancements across various body systems. The initial four chapters delve into multi-slice spiral CT principles and techniques, CTA image post-processing, data analysis, radiation dose optimization strategies, and the utilization and principles of CTA contrast agents. Chapters 5 to 21 are dedicated to the extensive applications of CTA technology throughout the body. The newly increased Chapters 20 and 21 offer detailed insights into the clinical application of spinal cord CTA and pediatric CTA. While retaining a strong focus on fundamental knowledge from the first edition, the second edition dedicates more space to radiation dose optimization strategies and highlights CTA's

recent advancements in various systems. It additionally incorporates comprehensive anatomical descriptions of various body parts and emphasizes CTA's role in disease prognosis and evaluation. This book is suitable for reference study by medical imaging physicians, graduate students, and physicians in related clinical departments.