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Nota di contenuto	Pediatric Imaging Essentials: Radiography, Ultrasound, CT, and MRI in Neonates and Children -- Title Page -- Copyright -- Contributors -- Preface -- List of Abbreviations -- Contents -- 1 Special Imaging Issues in Children -- 1.1 General Introduction, Basic Considerations -- 1.2 Importance of Radiation Protection in Children -- 1.3 Radiography and Fluoroscopy -- 1.4 Technique and Clinical Value of Ultrasound in Pediatric Radiology -- 1.5 Special Aspects of Computed Tomography in Children -- 1.6 Special Aspects of Magnetic Resonance Imaging in Children -- 2 Imaging of the Pediatric Chest -- 2.1 Chest Radiography, Computed Tomography, and Magnetic Resonance Imaging-Lung, Pleura, and Thoracic Cage -- 2.2 Mediastinum -- 2.3 Basic Principles of Thoracic Ultrasound in Children -- 2.4 The Pediatric Breast -- 2.5 Important Aspects of Cardiac Imaging in Newborns and Children -- 3 Imaging of the Pediatric Gastrointestinal Tract -- 3.1 Imaging Modalities and Prerequisites -- 3.2 Congenital Anomalies of the Gastrointestinal Tract -- 3.3 Neonatal Gastrointestinal Problems and Complications -- 3.4 Acquired Gastrointestinal Changes after the Neonatal Period -- 3.5 Congenital and Acquired Abnormalities of the Liver, Bile Ducts, and Pancreas -- 3.6 Important Disorders of the Spleen -- 4 Imaging of the Pediatric Central Nervous System and Spine -- 4.1

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Sommario/riassunto

For all radiologists diagnosing infants and children, knowledge of best practices in pediatric imaging is essential to safely obtaining high-quality images and achieving accurate diagnoses. This practical text covers current guidelines and key topics in the field, including choice of modality, equipment and dosages, child-specific diseases, typical imaging findings, differential diagnostic aspects, and safety factors. This book is invaluable for all clinicians and radiologists who diagnose and manage this sensitive population. Special Features: Explores the use of all standard imaging modalities in children as compared to adults, especially with regard to ultrasound, CT, and MRI Supplies more than 600 high-quality images to help in interpreting findings, including imaging of suspected child abuse Shows how to adapt examination protocols and equipment requirements for the specialized needs of pediatric patients Describes important safety protection measures in children utilizing the ALARA principle of radiation exposure (As Low As Reasonably Achievable) Summarizes a wide array of pediatric diseases and disorders in a concise, checklist format, including clinical features, imaging findings, differential diagnosis, associated syndromes, and treatment recommendations Includes lists of indications, summary tables, imaging protocols, case studies,

and quiz questions to test your knowledge. This book provides a fundamental understanding of imaging in infants and children and is an ideal, practice-oriented reference for residents, fellows in pediatric radiology, and general radiologists. It is also written for pediatricians, pediatric surgeons, and other interested doctors and specialists who want to know more about imaging specifics in the pediatric age group.
