



Spiral and Multislice Computed Tomography of the Body

By Mathias Prokop



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Whole body computed tomography has developed at an explosive pace in the past decade, spurred on especially by the introduction of spiral CT. This new technology has not only greatly improved diagnostic accuracy, but also made possible dozens of whole body imaging studies that were previously accessible only through conventional projection radiography.

This book expertly fills a gap in the literature by presenting the state-of-the-art capabilities and requirements of CT as a key diagnostic and interventional tool, with special emphasis on the role of spiral CT. You will find a complete introduction to the technical aspects and basic principles of image interpretation, essential for fully utilizing the new technology and providing all you need to know to get started. The book goes on to cover design of CT scanners, patient preparation, scanning strategies, and image analysis.

Highlights include:

- * Full coverage of single-slice, 4-slice and 16-slice scanning techniques
- * Guidelines for optimal use of CT and avoiding errors
- * Suggested scanning parameters that yield high image quality, key diagnostic information, and maintain radiation safety
- * Convenient format by organ system and disease entity, with CT indications integrated throughout with other imaging modalities
- * Full discussion of organ-specific pathology

At a time when CT examinations are becoming more technically demanding and complex, with an increasing number of scan parameters and advances in 3D reconstructions, this book is an essential professional tool. Experienced practitioners will find their diagnostic and technical skills improved by reading the book, and beginners will enjoy the clear, systematic approach that will help them use the technique with confidence. Stay current in the most important imaging modality in diagnostic radiology; order today!

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