



## Image Principles, Neck, and the Brain

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Magnetic resonance imaging (MRI) is a technique used in biomedical imaging and radiology to visualize internal structures of the body. Because MRI provides excellent contrast between different soft tissues, the technique is especially useful for diagnostic imaging of the brain, muscles, and heart.

In the past 20 years, MRI technology has improved significantly with the introduction of systems up to 7 Tesla (7 T) and with the development of numerous post-processing algorithms such as diffusion tensor imaging (DTI), functional MRI (fMRI), and spectroscopic imaging. From these developments, the diagnostic potentialities of MRI have improved impressively with an exceptional spatial resolution and the possibility of analyzing the morphology and function of several kinds of pathology.

Given these exciting developments, the **Magnetic Resonance Imaging Handbook: Image Principles, Neck, and the Brain** is a timely addition to the growing body of literature in the field. Covering MRI from fundamentals to practice, this comprehensive book:

- Discusses the clinical benefits of diagnosing human pathologies using MRI
- Explains the physical principles of MRI and how to use the technique correctly
- Highlights each organ's anatomy and pathological processes with high-quality images
- Examines the protocols and potentialities of advanced MRI scanners such as 7 T systems
- Includes extensive references at the end of each chapter to enhance further study

Thus, the **Magnetic Resonance Imaging Handbook: Image Principles, Neck, and the Brain** provides radiologists and imaging specialists with a valuable, state-of-the-art reference on MRI.

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