



# MR Imaging in White Matter Diseases of the Brain and Spinal Cord (Medical Radiology)

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## MR Imaging in White Matter Diseases of the Brain and Spinal Cord (Medical Radiology) From Springer

In recent decades, the use of neuroimaging techniques has resulted in outstanding progress in the diagnosis and management of neurological diseases, and this is particularly true of those diseases that affect the white matter of the brain and spinal cord. This book, written by internationally acclaimed experts, comprises a series of comprehensive and up-to-date reviews on the use of MR imaging in these major neurological conditions. The diverse available MR techniques, such as magnetization transfer MRI, diffusion-weighted MRI, MR spectroscopy, functional MRI, cell-specific MRI, perfusion MRI, and microscopic imaging with ultra-high field MRI, offer an extraordinarily powerful means of gaining fundamental *in vivo* insights into disease processes. The strengths and weaknesses of all these techniques in the study of multiple sclerosis and other relevant diseases are extensively considered. After an introductory section on neuroimaging technology, subsequent sections address disorders of myelination, demyelinating diseases, immune-mediated disorders, and white matter disorders related to aging and other conditions. This book provides a valuable summary of the state of the art in the field, and defines important areas for future research.

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#### **Review**

From the reviews of the first edition:

"From the series Medical Radiology – Diagnostic Imaging, the four editors present an updated version on MR imaging in white matter diseases of the brain and spinal cord . . . In this form the present book is a state-of-the-art compendium on the application of . . . MRI techniques . . . the editors should be congratulated on their present book as it provides all the necessary information on MRI imaging of white matter diseases of the brain and spinal cord." (T.J. Vogl, European Radiology, 2006)

#### **From the Back Cover**

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