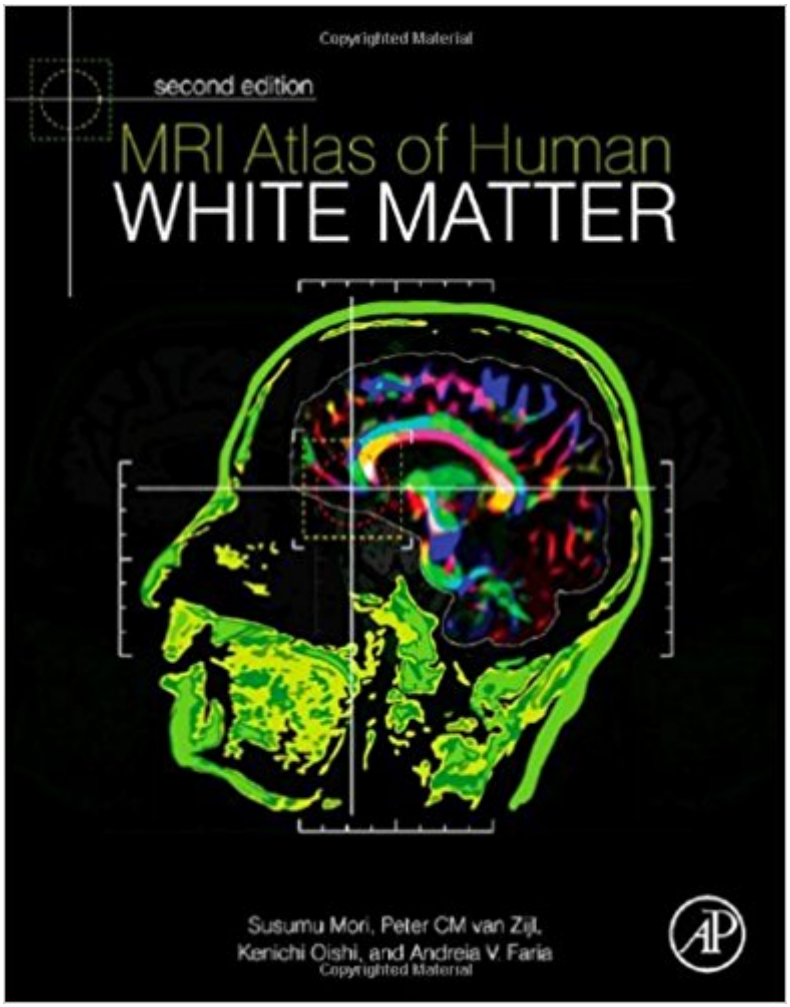
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MRI Atlas Of Human White Matter, Second Edition



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Synopsis

MRI Atlas of Human White Matter presents an atlas to the human brain on the basis of T 1-weighted imaging and diffusion tensor imaging. A general background on magnetic resonance imaging is provided, as well as the basics of diffusion tensor imaging. An overview of the principles and limitations in using this methodology in fiber tracking is included. This book describes the core white-matter structures, as well as the superficial white matter, the deep gray matter, and the cortex. It also presents a three-dimensional reconstruction and atlas of the brain white-matter tracts. The Montreal Neurological Institute coordinates, which are the most widely used, are adopted in this book as the primary coordinate system. The Talairach coordinate system is used as the secondary coordinate system. Based on magnetic resonance imaging and diffusion tensor imaging, the book offers a full segmentation of 220 white-matter and gray-matter structures with boundaries. Visualization of brain white matter anatomy via 3D diffusion tensor imaging (DTI) contrasts and enhances relationship of anatomy to functionFull segmentation of 170+ brain regions more clearly defines structure boundaries than previous point-and-annotate anatomical labeling, andÃ Â connectivity is mapped in a way not provided by traditional atlases

Book Information

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Customer Reviews

"Overall, NeuroApps: MRI Atlas of Human White Matter will be of great interest to anyone in need of an introduction to human white matter anatomy and particularly valuable to those using diffusion tensor imagingÃ¢â ¬Â¦The conversion to an iPad app has been well implemented and makes the

atlas all the more accessible and attractive."--American Medical Association, JAMA, December 5, 2012, Vol 308, No 21, page 2280

Not very useful clinically. Labels on structures difficult to read. I will be returning or selling this book.

As a neuroradiology fellow, I have found this book extremely helpful and I highly recommend it to others learning brain anatomy. I have found it especially helpful in understanding the tractography we do for tumor resection planning.

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