



# Diffusion MRI

By Derek K Jones

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Professor Derek Jones, a world authority on diffusion MRI, has assembled most of the world's leading scientists and clinicians developing and applying diffusion MRI to produce an authorship list that reads like a "Who's Who" of the field and an essential resource for those working with diffusion MRI. Destined to be a modern classic, this definitive and richly illustrated work covers all aspects of diffusion MRI from basic theory to clinical application.

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## **Editorial Review**

### Review

"This is a truly comprehensive compilation of the science and application of these techniques in the study of brain. The book is organized into 8 sections from the physics and basics to the use of these approaches in the characterization of neurological and psychiatric disorders. There are sections on experimental considerations, analysis including fiber tracking and crossing fibers. There is also a section entitled 'Diffusion MRI Beyond White Matter' attesting to the great potential and future application of diffusion imaging and a final section that outlines the history of its evolution and personal perspectives of several pioneers. Although the book has almost 50 chapters between its covers there is little, if any, redundancy. This book is a tour de force on the topic of diffusion MRI and a must read for any student or investigator interested in this exciting and important imaging field."

--Arthur W. Toga, PhD, Laboratory of Neuro Imaging, UCLA School of Medicine, Los Angeles, CA

"This remarkable compendium of 47 chapters written by the world experts provides the most comprehensive and the most detailed description of this novel and sophisticated method. There is something of interest for everyone: from theory to hardware; from physics to biology; from animal to human internal anatomy; from general medicine to specialized diseases; and, most importantly, from brain architecture underlying normal behavior to abnormalities in neurology and psychiatry, which have benefited enormously by the introduction of this method. It may sound as a cliché that it is a must, not only for imagers, specialists and researchers, but also for general practitioners, if they need and want to be informed."

- Pasko Rakic, MD, PhD, Duberg Professor of Neurobiology and Neurology, Chairman, Department of Neurobiology, Director, Kavli Institute for Neuroscience, Yale University School of Medicine, New Haven, CT and Editor-in-Chief of Cerebral Cortex

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### About the Author

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