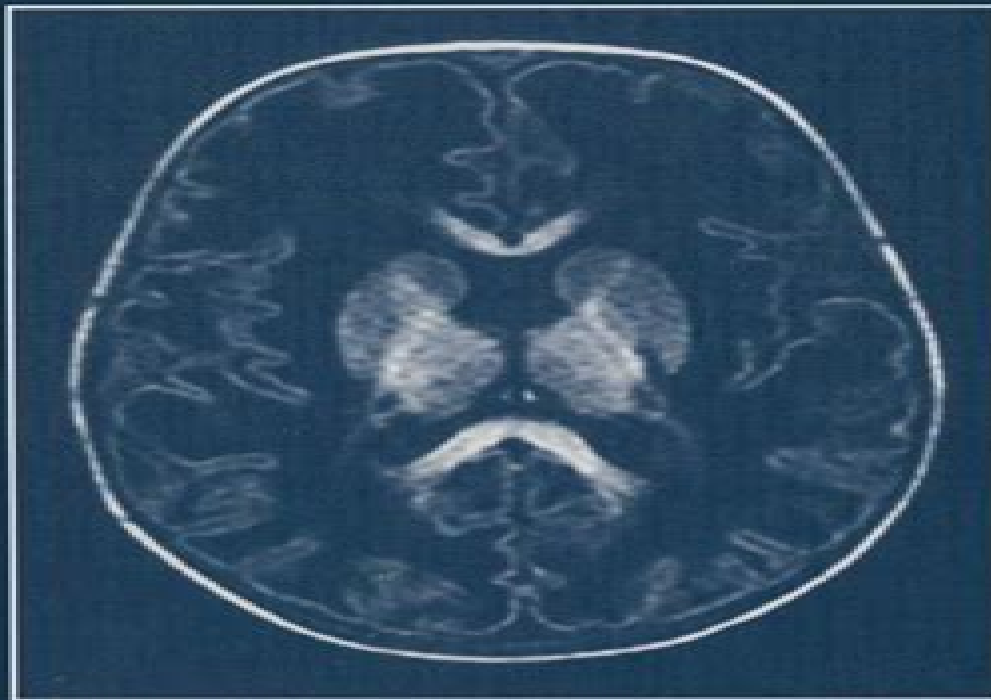


M.S. van der Knaap J. Valk

Magnetic Resonance of Myelin, Myelination, and Myelin Disorders



2nd Edition



Springer

Magnetic Resonance Of Myelin Myelination And Myelin Disorders

Marjo S. van der Knaap, Jaap Valk



Magnetic Resonance Of Myelin Myelination And Myelin Disorders:

Magnetic Resonance of Myelin, Myelination and Myelin Disorders Marjo S. van der Knaap, Jacob Valk, 2013-06-29
The first edition of this book was well received by readers and reviewers and we are very grateful for the positive reactions. We were convinced then and even more now that MRI and MRS have much to offer in diagnosis therapy monitoring and research of hereditary and acquired myelin disorders. In the last few years a great deal of new information has come available concerning the genetic basis of inborn errors of metabolism and neurodegenerative disorders, the role of subcellular structures, the enzyme biochemistry, the pathophysiological mechanisms of posthypoxic ischemic cerebral damage and the inflammatory processes in infectious and inflammatory disorders. MR images of many rare disorders have become available either in our own experience or published by other groups. MR spectroscopy could confirm its role in certain clinical applications. Because of these developments it was necessary for us to rewrite the book almost completely. In some fields developments are so fast that we may not have caught all the latest developments. The pattern of the new approaches has however been established making the assimilation of newly available information easy. We are extremely grateful for the help of colleagues to make this book as complete as possible. The positive reactions of those from whom we requested MR pictures or other forms of support were of enormous encouragement to us during our efforts to complete this project. We hope this work will be as warmly welcomed by our colleagues as the first edition.

Magnetic Resonance of Myelin, Myelination, and Myelin Disorders Jacob Valk, Marjo S. van der Knaap, 1989 Magnetic Resonance of Myelination and Myelin Disorders Marjo S. van der Knaap, Jaap Valk, 2005-08-15

Our thanks go to our colleagues at the VU University Medical Center and to those in other hospitals. Reading through the prefaces of the two previous editions who referred their patients to us. We are indebted to them. We can say that much of what was said there still holds. All colleagues who allowed us to use their MR images holds. At the same time however much has changed published or unpublished making it possible for us to. There has been immense progress in the technical present illustrations of nearly all known white matter possibilities of magnetic resonance and in the known disorders. Two colleagues were particularly helpful. Knowledge of genetic defects biochemical abnormalities and provided us with essential and unpublished data and cellular processes underlying myelin disorders. Our friends Susan Blaser from the Hospital for Sick Children in Toronto and Zoltan Patay from the King Faisal Hospital in Riyadh upon the enormous task of rewriting the previous edition and adding 40 chapters. In doing so we have. Many people at the VU University Medical Center tried to cover most white matter disorders hereditary have been of great technical help to us in producing and acquired and to present a collection of images to high quality images and in providing secretarial illustrate the field to the fullest possible extent. This assistance. The contributions of these people are. The edition will therefore be more complete than the pre mentioned separately in the acknowledgements.

Magnetic Resonance of Myelin, Myelination, and Myelin Disorders Marjo S. van der

Knaap,1995 This is the second completely rewritten edition of the widely acclaimed book on MR of myelin myelination and myelin disorders 1989 In the last five years many new data became available with regard to genetics molecular biology the role of cellular substructures on one side and on the other side regarding the growing experience with MR patterns of less common myelin disorders Not only therefore the text has been updated but many new chapters have been added on disorders of which previously the white matter involvement was less clear The acquired myelin disorders were reorganized and their backgrounds were more extensively elucidated to place the MR examinations in the clinical context where they belong

Magnetic Resonance Imaging of the Brain and Spine Scott W. Atlas,2009 Established as the leading textbook on imaging diagnosis of brain and spine disorders Magnetic Resonance Imaging of the Brain and Spine is now in its Fourth Edition This thoroughly updated two volume reference delivers cutting edge information on nearly every aspect of clinical neuroradiology Expert neuroradiologists innovative renowned MRI physicists and experienced leading clinical neurospecialists from all over the world show how to generate state of the art images and define diagnoses from crucial clinical pathologic MR imaging correlations for neurologic neurosurgical and psychiatric diseases spanning fetal CNS anomalies to disorders of the aging brain Highlights of this edition include over 6 800 images of remarkable quality more color images and new information using advanced techniques including perfusion and diffusion MRI and functional MRI A companion Website will offer the fully searchable text and an image bank

Magnetic Resonance of Myelination and Myelin Disorders (2005). , **Myelination and Myelin Disorders** Marjo S. van der Knaap,1991 *Pediatric Neuroimaging* A. James Barkovich,2005 The thoroughly updated Fourth Edition of this acclaimed reference describes and illustrates the full range of pediatric disorders diagnosable by modern neuroimaging This edition includes state of the art information on the use of proton spectroscopy diffusion imaging and perfusion imaging in diagnosing metabolic disorders brain tumors abnormalities of cerebral microstructure and abnormalities of blood flow New entities have been added to the chapters on metabolic disorders brain injuries congenital malformations of the brain and skull cerebellar disorders brain tumors phakomatoses hydrocephalus and infections More than 2 400 images complement the text A List of Disorders with corresponding page numbers enables readers to quickly look up a disease

Magnetic Resonance in Multiple Sclerosis David H. Miller,1997-07-17 Magnetic resonance MR imaging and spectroscopy are powerful tools for demonstrating and monitoring pathological processes of the brain and spinal cord Multiple sclerosis MS a common and as yet incurable disease of the brain and spinal cord is being studied intensively using these techniques They perform a major role in facilitating the diagnosis understanding the mechanisms of symptoms and monitoring the effect of new treatments Written by experts in the field this extensively illustrated text provides a comprehensive review of the benefits and limitations of MR in the study of MS Coverage ranges through the contributions of MR the variety of techniques available diagnosis and differential diagnosis MR as a predictor of the clinical course MR views of pathophysiology and finally monitoring new treatment efficacy

Magnetic

Resonance Neuroimaging John Kucharczyk, A. James Barkovich, Michael Moseley, 1993-12-21 Magnetic Resonance Neuroimaging is a comprehensive volume that focuses on the newest fields of MRI from functional and metabolic mapping to the latest applications of neuro interventional techniques Each chapter offers critical discussions regarding available methods and the most recent advances in neuroimaging including such topics as the use of diffusion and perfusion MRI in the early detection of stroke the revolutionary advent of high speed MRI for non invasively mapping cortical responses to task activation paradigms and the principles and applications of contrast agents The chapters also discuss how these new advances are applied to problems in patients ranging in age from the newborn to the elderly as well as disease states ranging from metabolic encephalopathy to cardiovascular disorders and stroke Magnetic Resonance Neuroimaging will be a valuable text reference for residents research fellows and clinicians in radiology neuroradiology and magnetic resonance imaging

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web he concluded that at a constant pressure the volume of the gas would expand at a particular rate for each degree of temperature rise that being 1/267 per degree in 1874 Victor Regnault obtained better experimental results showing this number to be 1/273 and concluded that the pressure would approach zero at 1/273 degrees C

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web the volume of 1.00 mol of any gas at STP standard temperature 273.15 K and pressure 1 atm is measured to be

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web chemists sometimes make comparisons against a standard temperature and pressure stp for reporting properties of gases 273 15 k and 1 atm 101 325 kpa 1 at stp one mole of an ideal gas has a volume of about 22 4 l this is referred to as the standard molar volume figure 9 18

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