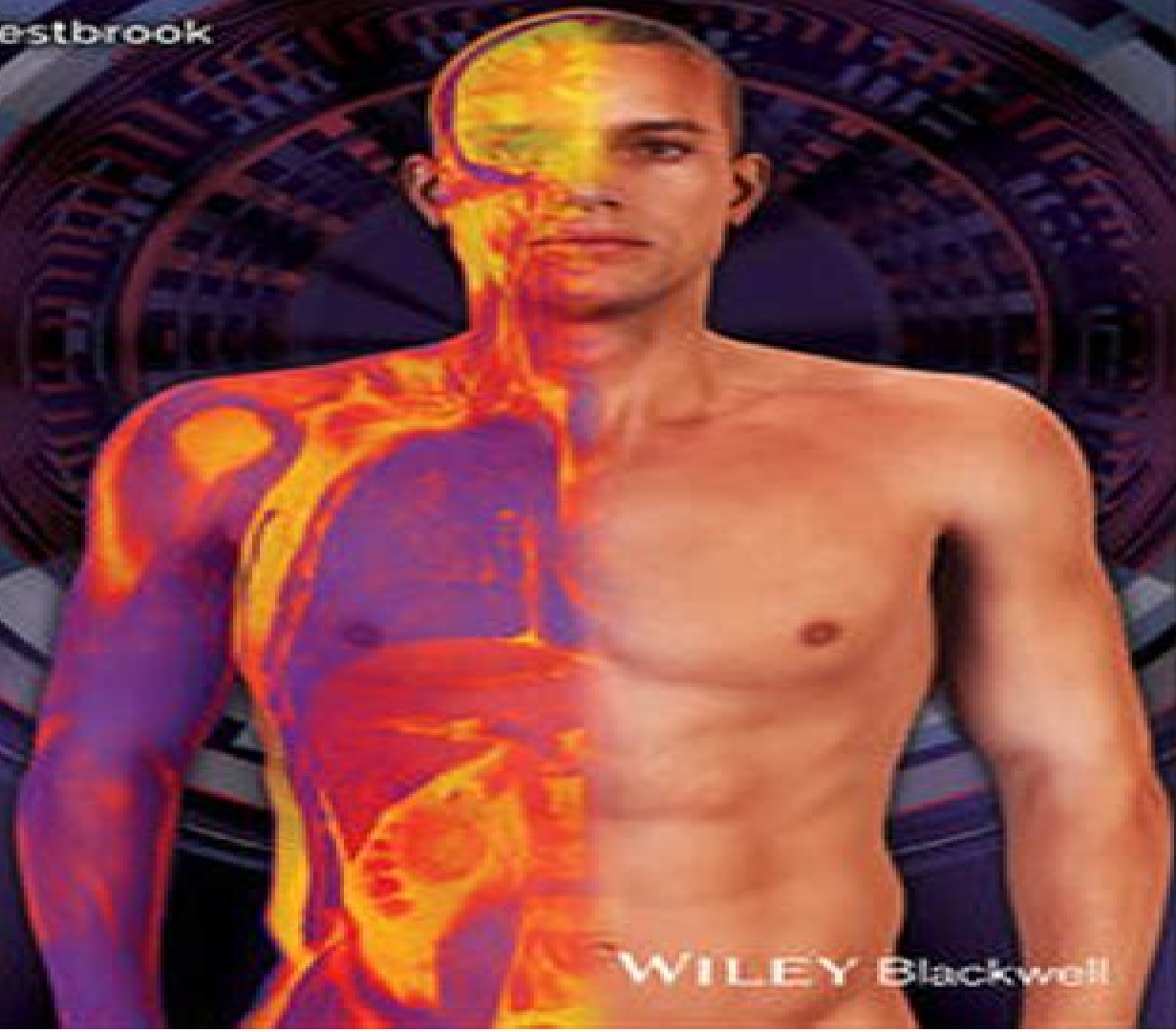


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IN PRACTICE

Catherine Westbrook
John Talbot



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the subject of Magnetic Resonance Imaging MRI This text is essential reading on undergraduate and postgraduate MRI courses Furthermore MRI in Practice has come to be known as the number one reference book and study guide in the area of MR instrumentation principles pulse sequences image acquisition and imaging parameters for the advanced level examination for MRI offered by the American Registry for Radiologic Technologists ARRT in the USA The book explains in clear terms the theory that underpins magnetic resonance so that the capabilities and operation of MRI systems can be fully appreciated and maximised This fourth edition captures recent advances and coverage includes parallel imaging techniques and new sequences such as balanced gradient echo Building on the success of the first three editions the fourth edition has been fully revised and updated The book now comes with a companion website at <http://www.wiley.com/go/mriinpractice> which hosts animated versions of a selection of illustrations in the book that are used on the MRI in Practice Course These animations and accompanying text are aimed at helping the reader's comprehension of some of the more difficult concepts The website also hosts over 200 interactive self assessment exercises to help the reader test their understanding MRI in Practice features Full color illustrations Logical presentation of the theory and applications of MRI A new page design A companion website at <http://www.wiley.com/go/mriinpractice> featuring interactive multiple choice questions short answer questions PLUS animations of more complex concepts from the book For more information on the MRI in Practice Course and other learning resources by Westbrook and Talbot please visit <http://www.mrieducation.com>

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the pathophysiological processes the clinical presentation diagnosis and treatment of the disease This book includes in depth chapters exploring the use of conventional and non conventional imaging methods These chapters cover magnetic resonance imaging MRI specific topics such as measurement of brain atrophy and susceptibility weighted imaging Additional chapters explore the use of additional imaging methods such as positron emission tomography PET optical coherence tomography OCT and high field MRI use of 7T MRI scanners Reviews all non conventional imaging modalities currently developed in the field of multiple sclerosis Written by an international list of authors that are very highly regarded in the very specific field of their respective chapter Includes information regarding the basics of acquisition and analysis that would allow researchers set up their own MRI research

Textbook of Veterinary Diagnostic Radiology - E-Book Donald E. Thrall, 2012-06-08 NEW chapter on MR spinal imaging provides the latest information on the diagnosis of spinal cord disease through the use of CT and MRI NEW information on digital imaging covers the newest advances in digital imaging Updated coverage of procedures such as the esophagram upper GI examination excretory urography and cystography helps in determining when and how these procedures are performed in today's practice Revised chapters on basic interpretation make information easier to find with in depth discussions of the principles of image acquisition and interpretation radiography radiation safety and basic coverage of normal variants

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Sensakovic,2019-01-01 Master the critical physics content you need to know with this new title in the popular Case Review series Imaging Physics Case Review offers a highly illustrated case based preparation for board review to help residents and recertifying radiologists succeed on exams and demonstrate a clinical understanding of physics patient safety and improvement of imaging accuracy and interpretation Presents 150 high yield case studies organized by level of difficulty with multiple choice questions answers and rationales that mimic the format of certification exams Uses short easily digestible chapters and high quality illustrations for efficient effective learning and exam preparation Discusses current advances in all modalities ensuring that your study is up to date and clinically useful Covers today s key physics topics including radiation safety and methods to prevent patient harm how to reduce artifacts basics of radiation doses including dose reduction strategies cardiac CT physics advanced ultrasound techniques and how to optimize image quality using physics principles Enhanced eBook version included with purchase which allows you to access all of the text figures and references from the book on a variety of devices **Magnetic Resonance Imaging of Myocardial Deformation and Scarring in Coronary**

Artery Disease. Johan Kihlberg,2017-11-15 Although improved treatments have reduced the rates of acute complications from myocardial infarction sequelae such as heart failure and sudden death threaten the future wellbeing of those patients Secondary prevention after myocardial infarction is related to cardiovascular risk factors and the effect of the infarct on left ventricular function Cardiovascular magnetic resonance imaging CMR is necessary to determine the size of the infarct scar and can with great precision determine left ventricular volumes left ventricular ejection fraction and deformation strain and torsion The purpose of this thesis was to improve on CMR methods to facilitate image acquisition and post processing in patients with high risk of coronary artery disease CAD In Paper 1 a three dimensional phase sensitive inversion recovery 3D PSIR sequence was modified to measure T1 during a single breath hold The measured T1 values were used to extrapolate a map of T1 relaxation which avoided the time consuming manual determination of the inversion time The data collection consisted of phantom experiments Monte Carlo simulations of the effect of various heart rates and clinical investigation of 18 patients with myocardial infarction Scar images created with the modified sequence were compared to those created with the standard sequence The 3D PSIR sequence was able to measure T1 relaxation with a high accuracy up to 800 ms which is

in the suitable range for scar imaging Simulated arrhythmias showed that the method was robust and able to tolerate some variation in heart rate The modified sequence provides measurements of inversion time that can be used to facilitate standard scar imaging or to reconstruct synthetic scar images Images of infarct scar obtained with the 3D PSIR sequence bore striking similarity to images obtained with the standard sequence In Paper 2 125 patients with high risk of CAD were investigated using the displacement encoding with stimulated echoes DENSE sequence Image segments with infarct scar area 50% transmural could be identified with a sensitivity of 95% and a specificity of 80% based on circumferential strain calculated from the DENSE measurements The DENSE sequence was also applied in other directions but its sensitivity and specificity to detect scar was lower than when used for circumferential strain In Paper 3 90 patients with high risk of CAD were examined by DENSE tagging with harmonic phase HARP imaging and cine imaging with feature tracking FT to detect cardiac abnormalities as manifested in end systolic circumferential strain Circumferential strain calculated with DENSE had higher sensitivity and specificity than the competing methods to detect infarction with transmural 50% Global circumferential strain measured by DENSE correlated better with global parameters such as left ventricular ejection fraction myocardial wall mass left ventricular end diastolic and end systolic volume than strain measured by FT or HARP In Paper 4 myocardial torsion was investigated using DENSE HARP and FT in 48 patients with high risk of CAD Torsion measured by each of the three methods was correlated with other global measures such as left ventricular ejection fraction left ventricular mass and left ventricular end diastolic and end systolic volumes The torsion measurements obtained with DENSE had a stronger relationship with left ventricular ejection fraction left ventricular mass and volumes than those obtained with HARP or FT DENSE was superior to the other methods for strain and torsion measurement and can be used to describe myocardial deformation quantitatively and objectively

MRI in Practice □□□,2013-03-05 **Functional Neuroradiology** Scott H. Faro,Feroze B. Mohamed,Meng Law,John T. Ulmer,2011-09-08

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