

Basic principles of MR imaging

Hoofdstuk 2: MR principe

Magnetische eigenschappen kern

Alle kernen met een ongelijke atomaire massa hebben een spin. Wanneer er een magnetisch veld aanzet wordt zullen deze spins ofwel parallel of antiparallel draaien. De spin vectoren draaien om een as met een specifiek frequentie => Larmor precessie. Er zullen net wat meer spins parallel aan het veld staan.

Larmor precessie

Door de spins aan te slaan met een RF puls van dezelfde frequentie als de spin, klapt de netto magnetisatie vector (M_z) om. Hierna draait de M_z met de Larmor frequentie in het magnetisch veld. Door het toevoegen van een ander magnetisch veld klapt de M_z om in de M_x richting. Fliphoek = $\gamma B_1 t$. M_z is longitudinaal, M_x is transversaal. Het maximale MR signaal ontstaat bij een 90° hoek. Een hogere veldsterkte leidt tot een hogere M_z en mogelijk een hoger signaal. M_z is statisch en geeft dus geen signaal.

Relaxatie

Na excitatie keren M_z en M_x terug naar de evenwichtstoestand waarbij elektromagnetische radiatie uitgezonden wordt. Beide relaxatie processen zijn onafhankelijk van elkaar, maar wel afhankelijk van moleculaire structuur, fysische staat en temperatuur.

- Longitudinale relaxatie: T_1 is een tijdconstante welke de tijd beschrijft die nodig is om terug te groeien tot 63% van de originele M_z waarde. Grote en kleine moleculen hebben een relatief lange T_1 en medium moleculen een korte T_1 . De T_1 van vloeistoffen is over het algemeen korter dan die van vaste stoffen. De T_1 is afhankelijk van hoe efficiënt energie uitwisseling plaats kan vinden. De T_1 gaat omlaag in de aanwezigheid van macromoleculen. $5 \times T_1 \sim 100\%$ terug groei.
- Transversale relaxatie: T_2 is een tijdconstante voor spin-spin interacties om terug te vallen tot 37%. Door spin-spin interacties ontstaan er veld inhomogeniteiten, de spins defaseren en de M_x neemt af. Vaste stoffen en grote moleculen hebben een korte T_2 . Kleine moleculen hebben een korte T_2 en de aanwezigheid van macromoleculen verkort de T_2 . De combinatie T_2 relaxatie en veld inhomogeniteiten wordt T_2^* genoemd.

Free induction decay, signaal detectie en Fourier transformatie

Na de 90° puls wordt een signaal gemeten in een ontvangstspool nadat de excitatie puls uit is gezet. Dit signaal wordt het "free induction decay" signaal genoemd omdat het in de loop van de tijd vervalst. Het signaal oscilleert rond de Larmor frequentie, de amplitude daalt met T_2^* en door het uitvoeren van Fourier transformaties ontstaat het NMR spectrum. Amplitude M_{xy} is afhankelijk van proton dichtheid. Fourier transformeerd een functie in het tijddomein naar een functie in het frequentiedomein door integreren. Een rechthoek in de Fourier is een $\sin(nk)/nk = \text{sinc}(k)$.

Spin echo

De statische veld inhomogeniteiten kunnen teniet gedaan worden door de echo te meten i.p.v. het FID signaal. De 90° puls zorgt voor omklapping naar het XY-vlak. Door T_2 effecten treedt defasering op. Op $TE/2$ wordt een 180° puls gegeven waardoor de spins gespiegeld worden. De spins refaseren en vormen een echo. De spins zijn nu alleen nog van elkaar gescheiden door spin-spin interacties. Uiteindelijk wordt de echo hierdoor 0. De afname in amplitude is gelijk aan T_2 . Scan duur = $N_y \times TR$. Vullen k-ruimte: G_y en G_x tegelijkertijd dus diagonaal = 180° puls spiegeld in $x=y$ = G_x individueel zorgt voor horizontale lijn.

Basic Principles Of Mr Imaging

**Robert W. Brown, Y.-C. Norman
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Thompson, Ramesh Venkatesan**



Basic Principles Of Mr Imaging:

MRI Brian M. Dale, Mark A. Brown, Richard C. Semelka, 2015-08-06 This fifth edition of the most accessible introduction to MRI principles and applications from renowned teachers in the field provides an understandable yet comprehensive update Accessible introductory guide from renowned teachers in the field Provides a concise yet thorough introduction for MRI focusing on fundamental physics pulse sequences and clinical applications without presenting advanced math Takes a practical approach including up to date protocols and supports technical concepts with thorough explanations and illustrations Highlights sections that are directly relevant to radiology board exams Presents new information on the latest scan techniques and applications including 3 Tesla whole body scanners safety issues and the nephrotoxic effects of gadolinium based contrast media **Basic Principles of MR Imaging** Philips Medical Systems Nederland, 1990*

Introduktion til basale principper i MR scanning **Magnetic Resonance Imaging** Robert W. Brown, Y.-C. Norman Cheng, E. Mark Haacke, Michael R. Thompson, Ramesh Venkatesan, 2014-06-23 New edition explores contemporary MRI principles and practices Thoroughly revised updated and expanded the second edition of Magnetic Resonance Imaging Physical Principles and Sequence Design remains the preeminent text in its field Using consistent nomenclature and mathematical notations throughout all the chapters this new edition carefully explains the physical principles of magnetic resonance imaging design and implementation In addition detailed figures and MR images enable readers to better grasp core concepts methods and applications Magnetic Resonance Imaging Second Edition begins with an introduction to fundamental principles with coverage of magnetization relaxation quantum mechanics signal detection and acquisition Fourier imaging image reconstruction contrast signal and noise The second part of the text explores MRI methods and applications including fast imaging water fat separation steady state gradient echo imaging echo planar imaging diffusion weighted imaging and induced magnetism Lastly the text discusses important hardware issues and parallel imaging Readers familiar with the first edition will find much new material including New chapter dedicated to parallel imaging New sections examining off resonance excitation principles contrast optimization in fast steady state incoherent imaging and efficient lower dimension analogues for discrete Fourier transforms in echo planar imaging applications Enhanced sections pertaining to Fourier transforms filter effects on image resolution and Bloch equation solutions when both rf pulse and slice select gradient fields are present Valuable improvements throughout with respect to equations formulas and text New and updated problems to test further the readers grasp of core concepts Three appendices at the end of the text offer review material for basic electromagnetism and statistics as well as a list of acquisition parameters for the images in the book Acclaimed by both students and instructors the second edition of Magnetic Resonance Imaging offers the most comprehensive and approachable introduction to the physics and the applications of magnetic resonance imaging Magnetic Resonance Imaging Stuart W. Young, Stanford Instructional Television Network, 1988-02 The principles of magnetic resonance imaging

are presented using common analogies and many types of demonstrations and animated sequences to aid in illustrating this complex diagnostic tool

MRI: The Basics Ray H. Hashemi, Christopher J. Lisanti, William Bradley, 2017-10-16 Concise readable and engaging MRI The Basics 4th Edition offers an excellent introduction to the physics behind MR imaging Clinically relevant coverage includes everything from basic principles and key math concepts to more advanced topics including the latest MR techniques and optimum image creation Hundreds of high quality illustrations board style questions and answers legible equations and instructive diagrams take you from the basics of MR physics through current applications

Introduction to Functional Magnetic Resonance Imaging Richard B. Buxton, 2002-01-07 Functional Magnetic Resonance Imaging fMRI is now a standard tool for mapping activation patterns in the human brain This highly interdisciplinary field involves neuroscientists and physicists as well as clinicians who need to understand the rapidly increasing range flexibility and sophistication of the techniques In this book Richard Buxton a leading authority on fMRI provides an invaluable introduction for this readership to how fMRI works from basic principles and the underlying physics and physiology to newer techniques such as arterial spin labeling and diffusion tensor imaging

Basics of Magnetic Resonance Imaging William Oldendorf, William Oldendorf Jr., 1988-01-31 This book is not intended as a general text on MRI It is written as an introduction to the field for nonexperts We present here a simple exposition of certain aspects of MRI that are important to understand to use this valuable diagnostic tool intelligently in a clinical setting The basic principles are presented nonmathematically using no equations and a minimum of symbols and abbreviations For those requiring a deeper understanding of MRI this book will help facilitate the transition to standard texts Chapters 1 through 4 provide a general introduction to the phenomenon of nuclear magnetic resonance and how it is used in imaging Chapter 1 discusses magnetic resonance using a compass needle as an example In Chapter 2 the transition to the magnetic resonance of the atomic nucleus is made Chapter 3 describes the principles of imaging In Chapter 4 the terms T 1 and T 2 are described and their relationship to tissue characterization the fundamental role of thermal magnetic noise in T 1 and T 2 is discussed

Magnetic Resonance Imaging Stewart C. Bushong, 2003 Magnetic Resonance Imaging presents the fundamentals and principles of MRI its capabilities and various applications MRI can be a difficult subject because the physical principles underlying MRI are different from those of x ray imaging This text provides a clear and comprehensive explanation of the basic principles of conventional MRI and of the fast imaging techniques currently available Over 450 images photos and line drawings accompany each discussion clarifying difficult material Easy to read comprehensive material addresses six important content areas in an engaging style that does not require an extensive background in math or physics but still goes beyond superficial coverage Appendices provide more complex mathematical content in The Bloch Equations as well as a list of web addresses for professional organizations scientific associations and other sources of information relevant to the topics in the book New chapters on Chemical Shift and Magnetization Transfer chapter 19 Perfusion Imaging chapter 24 Diffusion Imaging chapter

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Basic Principles of MR Imaging X. Philips,2000 Basic Principles of Nuclear Magnetic Resonance Imaging J. Valk,C. MacLean,P. R. Algra,1985

Enjoying the Tune of Phrase: An Emotional Symphony within **Basic Principles Of Mr Imaging**

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