



Basics of Magnetic Resonance Imaging (Topics in Neurology)

William Oldendorf, William Oldendorf Jr.

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Basics of Magnetic Resonance Imaging (Topics in Neurology) William Oldendorf, William Oldendorf Jr. 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.

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