

MRI handbook : MR physics, patient positioning, and protocols / Muhammed Elmaoglu, Azim Çelik

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Abstrak

MRI Handbook presents a concise review of the physical principles underlying magnetic resonance imaging (MRI), explaining MR physics, patient positioning, and protocols in an easy-to-read format. The first five chapters of the book introduce the reader to the basics of MR imaging, including the relaxation concept, MR pulse sequences, and MR imaging parameters and options. The second part of the book (chapters 6-11) uses extensive illustrations, images, and protocol tables to explain tips and tricks to achieve optimal MR image quality while ensuring patient safety. Individual chapters are devoted to each major anatomic region, including the central nervous, musculoskeletal, and cardiovascular systems. By using annotated MR images and examples of patient positions used during scanning correlated with sample protocols and parameters.