This text equips radiologists with a firm working knowledge of the physical principles underlying cardiovascular MR image generation.

The emphasis is on practical applications of MR physics in customizing and optimizing imaging sequences and protocols and minimizing artifacts.

Section I covers basic principles of MR physics and includes a chapter on safety. Section II applies these principles to vascular imaging, including gadolinium-enhanced MR angiography. Section III examines various techniques and applications of cardiac MR imaging.

Each chapter includes boxed Key Concepts, Challenging Questions, and Review Questions, and many chapters include sample protocols.