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Nota di contenuto	Cover; Title Page; Contents; Foreword; Chapter 1. Ultrasound Medical Imaging; 1.1. Introduction; 1.2. Physical principles of echography; 1.2.1. Ultrasound waves; 1.2.2. Wavefronts; 1.2.3. Stress/Strain relation; 1.2.4. Propagation equation; 1.2.5. Acoustic impedance; 1.2.6. Acoustic intensity; 1.2.7. Mechanical Index; 1.2.8. Generation, emission; 1.2.9. Resolution; 1.2.10. Propagation of a plane wave in a finite isotropic medium; 1.2.11. Propagation of a plane wave in a non-homogeneous medium; 1.2.12. Speckle; 1.2.13. Nonlinear waves; 1.2.14. Contrast agents; 1.3. Medical ultrasound systems 1.3.1. Principle1.3.2. The different stages in image formation; 1.3.3. Ultrasound imaging probe; 1.3.4. Modes of imaging, B-mode and M-mode, and harmonic imaging modes; 1.3.5. Doppler imaging; 1.4. The US image; 1.4.1. Properties of speckle, echostructure and statistical laws; 1.4.2. Segmentation of US images; 1.4.3. Simulation of US images; 1.5. Recent advances in ultrasound imaging; 1.5.1. Generation/emission of ultrasounds; 1.5.2. Signal-and image processing; 1.5.3. Multimodal imaging; 1.6. A bright future for ultrasound imaging; 1.7. Bibliography; Chapter 2. Magnetic Resonance Imaging

2.1. Introduction 2.2. Fundamental elements for MRI; 2.2.1. Introduction; 2.2.2. Vectorial description of nuclear magnetic resonance (NMR); 2.2.3. RF pulses and their effect on magnetizations; 2.2.4. Elementary pulse sequences using the refocusing technique; 2.2.5. Spatial discrimination of signals using gradients: fundamental principle of MRI; 2.2.6. Multi-parameter aspect of MRI; 2.3. Instrumentation; 2.3.1. Introduction; 2.3.2. Recording the signal; 2.3.3. Magnetic systems; 2.3.4. A typical MRI installation in a clinical environment; 2.3.5. Operation and safety; 2.4. Image properties 2.4.1. Introduction 2.4.2. Field of view; 2.4.3. Spatial resolution; 2.4.4. Contrast and signal; 2.4.5. Contrast elements in MRI practice; 2.5. Imaging sequences and modes of reconstruction; 2.5.1. Introduction; 2.5.2. Overall view of acquisition sequences; 2.5.3. Modes of reconstruction; 2.6. Application of MRI: uses and evolution in the biomedical field; 2.6.1. Introduction; 2.6.2. Spectroscopy and imaging: technical and clinical complementarity; 2.6.3. Diffusion MRI: a morphological and functional approach; 2.6.4 Functional MRI (fMRI) of cerebral activation 2.6.5. Bi-modal approach to MRI: the example of MR/PET 2.7. Bibliography; List of Authors; Index

Sommario/riassunto

This book describes the different principles and equipment used in medical imaging. The importance of medical imaging for diagnostics is rapidly increasing. A good working knowledge of all the different possible physical principles involved in medical imaging is now imperative. This book covers many of these principles including matter photon interactions, the principles of detectors, detectors and information processing for radiology, X-ray tomography, positron tomography, single photon tomography and optical tomography.

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Nota di contenuto	Frontmatter -- Contents -- Acknowledgements -- 1 INTRODUCTION -- 1.1 What to Expect in this Book: A Very Brief Overview -- 1.2 A Few Words on Formal Decisions -- 1.3 How I Came to Write this Book -- 2 THEORETICAL AND HISTORICAL FOUNDATIONS -- 2.1 Why Comics? -- 2.2 Unequal Distributions of Power, Rights, and Resources -- 2.3 A Brief History of Intersectional LGBTIQ Politics in the U.S. -- 3 ALISON BECHDEL'S DYKES TO WATCH OUT FOR: A WHITE FANTASY OF A POST-RACIAL LESBIAN COMMUNITY -- 3.1 A "Chronicle of Lesbian Culture and History" -- 3.2 A Multicultural Universe with Whiteness at Its Center -- 3.3 Armchair Anti-Racism: A Post-Racial Lesbian Community in a Racist Society -- 3.4 White Lesbians as a Better Kind of White -- 3.5 Political Consequences of Dykes' Armchair Anti-Racism -- 3.6 Conclusion: When Fantasy Is Read as Fact -- 4 HOWARD CRUSE'S STUCK RUBBER BABY: HOW 'GAY IS THE NEW BLACK' DISCOURSES SHAPE THE WHITE GAY IMAGINARY -- 4.1 A Groundbreaking Work -- 4.2 A Window Seat to History? -- 4.3 'Gay Is the New Black:' A Dominant Discourse -- 4.4 Conservative Critiques -- 4.5 Common Intersectional Critiques -- 4.6 Further Intersectional Critiques -- 4.7 Conclusion: Stuck in a White Fantasy -- 5 JAIME CORTEZ'S SEXILE/SEXILIO:

UNLEARNING HOMONATIONALISM AND DEVELOPING ALTERNATIVE DISCOURSES -- 5.1 "Decentering Whiteness" -- 5.2 Disidentifications with Homonationalist Discourses -- 5.3 Centering Resilience -- 5.4 By Way of Conclusion: Reading *Sexile/Sexilio* from a Place of (Relative) Privilege -- 6 CONCLUSION: THE LIMITS OF WHITE LGBTIQ SELF-REPRESENTATIONS -- List of Works Cited

Sommario/riassunto

How do white queer people portray our own whiteness? Can we, in the stories we tell about ourselves, face the uncomfortable fact that, while queer, we might still be racist? If we cannot, what does that say about us as potential allies in intersectional struggles? A careful analysis of *Dykes To Watch Out For* and *Stuck Rubber Baby* by queer comic icons Alison Bechdel and Howard Cruse traces the intersections of queerness and racism in the neglected medium of queer comics, while a close reading of Jaime Cortez's striking graphic novel *Sexile/Sexilio* offers glimpses of the complexities and difficult truths that lie beyond the limits of the white queer imaginary.
