

*Preface*

Contributors

Abbreviations

**Part 1. Basic Physics for Neurology**

Chapter 1: Basic Physics, *Evan M. Johnson and Karl E. Misulis*

Chapter 2: Basic Electronics, *Karl E. Misulis and Evan M. Johnson*

Chapter 3: Computers, Applications, and Artificial Intelligence, *Karl E. Misulis and Eamon Doyle*

Chapter 4: Physics of Neurophysiology, *Evan M. Johnson and Karl E. Misulis*

**Part 2. Physics Behind Neurologic Technology**

Chapter 5: History of Technology in Neurology, *Karl E. Misulis and Evan M. Johnson*

Chapter 6: Electroencephalography, *Karl E. Misulis and Evan M. Johnson*

Chapter 7: Electromyography and Nerve Conduction Studies, *Karl E. Misulis and Evan M. Johnson*

Chapter 8: Evoked Potentials, *Karl E. Misulis*

Chapter 9: Ultrasound, *Evan M. Johnson*

Chapter 10: X-Ray and Computed Tomography, *Evan M. Johnson*

Chapter 11: Magnetic Resonance Imaging, *Eamon Doyle and Evan M. Johnson*

Chapter 12: Nuclear Imaging, *Evan M. Johnson*

Chapter 13: Laboratory Studies, *Karl E. Misulis*

Chapter 14: Neurologic Therapeutics, *Evan M. Johnson and Karl E. Misulis*

Notes

Glossary

Index