- Part I Background: The Problem, Existing Infrastructure, and Possible Solutions
- Chapter 1 The Patient's Perspective on Access to Medical Equipment (p. 3)
- Chapter 2 Results of a National Survey on Accessibility of Medical Instrumentation for Consumers (p. 13)
- Chapter 3 Emerging Human Factors and Ergonomics Issues for Health Care Professionals (p. 29)
- Chapter 4 Toward a New Health Care Policy: Accessible Medical Equipment and Instrumentation (p. 41)
- Chapter 5 Role of Tax Law in the Development and Use of Accessible Medical Instrumentation (p. 59)
- Part II Tools for Usability and Accessibility Analysis
- Chapter 6 Applying the Principles of Universal Design to Medical Devices (p. 83)
- Chapter 7 Using Ethnographic Research to Develop Inclusive Products (p. 93)
- Chapter 8 Educating Engineers in Universal and Accessible Design (p. 101)
- Chapter 9 Assistive Technology Devices and Universal Design Assessments: Theoretical Relationships and Implications on Measurement (p. 119)
- Chapter 10 Tools for Sensor-Based Performance Assessment and Hands-Free Control (p. 131)
- Chapter 11 Ergonomic Evaluation and Design of Handheld Medical Devices (p. 143)
- Chapter 12 Usability Testing by Multimedia Video Task Analysis (p. 159)
- Chapter 13 The Mobile Usability Lab Tool for Accessibility Analysis of Medical Devices: Design Strategy and Use Experiences (p. 173)
- Chapter 14 Comparison of Accessibility Tools for Biomechanical Analysis of Medical Devices: What Experts Think (p. 191)
- Part III Considerations in Design Guideline Development
- Chapter 15 Accessibility Standards and their Application to Medical Device Accessibility (p. 215)
- Chapter 19 Macroergonomic and Implementation Issues of Guidelines for Accessible Medical Devices (p. 255)
- Chapter 16 Human Factors Standards for Medical Devices Promote Accessibility (p. 225)
- Chapter 17 Designing Accessible Medical Devices (p. 233)
- Chapter 18 Letting User Ability Define Usability (p. 243)
- Chapter 20 Reducing Error and Enhancing Access to Home Use of Medical Devices: Designing from the Perspective of the Home Care Provider (p. 267)
- Chapter 21 Use of Problem-Solving Tools of TRIZ to Address Equipment Design for Home Care (p. 277)
- Chapter 22 Development of the Medical Equipment Device Accessibility and Universal Design Information Tool (p. 283)
- Chapter 23 Access to Medical Instrumentation: The Role of Web Accessibility (p. 297)
- Part IV Considerations in Emerging Trends and Technologies
- Chapter 24 Technology for Full Citizenship: Challenges for the Research Community (p. 307)
- Chapter 25 Future Possibilities for Interface Technologies that Enhance Universal Access to Health Care Devices and Services (p. 321)

- Chapter 26 Trends to Watch: Trends in Information and Communications Technology That May Influence Developments in Access to Medical Instrumentation (p. 341)
- Chapter 27 Emerging Personalized Home Rehabilitation: Integrating Service with Interface (p. 355)
- Chapter 28 Progress in Using the Universal Remote Console Standard to Create User-Customized Interfaces for Future Medical Devices (p. 373)
- Chapter 29 Usability and Access Issues in Telerehabilitation (p. 393)
- Chapter 30 Applications and Issues with Wireless Technology in Medical Care (p. 405)
- Part V Outputs of the Workshop: Key Knowledge Gaps, Barriers, Recommendations
- Chapter 31 Report of the Workshop on Accessible Interfaces for Medical Instrumentation: Draft Guidelines and Future Directions (p. 419)
- Appendix 1 Chairs' Perspectives on Workshop Breakout Theme C: Interfaces for Home Health Care Devices (p. 445)
- Appendix 2 Commentary on Distinguishing Accessibility from Accommodation (p. 449)
- Appendix 3 Commentary on Data, Models, and Procedures for Design of Accessible Medical Instrumentation (p. 451)
- Appendix 4 Commentary on What Is Accessibility? And What Does It Have to Do with Medical Device Design? (p. 453)
- Appendix 5 Commentary on the Difference between "Usability" and "Accessibility," Which May Be the End Users (p. 455)
- Glossary of Terms (p. 457)
- **Index** (p. 463)