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Design; 7.1 Range; 7.2 Sensitivity; 7.3 Finding Range from Sensitivity; 7.4 Superheterodyne Image and Spurious Response; 7.5 Intermodulation Distortion and Dynamic Range; 7.6 Demodulation; 7.7 Internal Receiver Noise; 7.8 Transmitter Design; 7.9 Bandwidth; 7.10 Antenna Directivity; 7.11 The Power Source; 7.12 Summary; 8. System Implementation; 8.1 Wireless Modules; 8.2 Systems on a Chip; 8.3 Large Scale Subsystems; 8.4 Summary; 9. Regulations and Standards; 9.1 FCC Regulations; 9.2 Test Method for Part 15 9.3 European Radiocommunication Regulations 9.4 The European Union Electromagnetic Compatibility Requirements; 9.5 Standards in the United Kingdom; 9.6 Japanese Low Power Standards; 9.7 Non-Governmental Standards; Appendix 9-A; Appendix 9-B; Appendix 9-C; 10. Introduction to Information Theory; 10.1 Probability; 10.2 Information Theory; 10.3 Summary; 11. Applications and Technologies; 11.1 Wireless Local Area Networks (WLAN); 11.2 Bluetooth; 11.3 Zigbee; 11.4 Conflict and Compatibility; 11.5 Ultra-wideband Technology; 11.6 Summary; back matter; Abbreviations; References and Bibliography; index

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Sommario/riassunto

The Complete "Tool Kit" for the Hottest Area in RF/Wireless Design! Short-range wireless-communications over distances of less than 100 meters-is the most rapidly growing segment of RF/wireless engineering. Alan Bensky is an internationally recognized expert in short-range wireless, and this new edition of his bestselling book is completely revised to cover the latest developments in this fast moving field. You'll find coverage of such cutting-edge topics as: architectural trends in RF/wireless integrated circuits compatibility and conflict issues between differ

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