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| Nota di contenuto | Front Cover -- Practical Radio-Frequency Handbook -- Copyright Page -- Table of Contents -- Preface -- Acknowledgements -- Chapter 1. Passive components -- Resistance and resistors -- Capacitors -- Inductors and transformers -- Chapter 2. Passive circuits -- References -- Chapter 3. RF transmission lines -- Transmission line operation at d.c. -- Transmission line operation at r.f. -- Chapter 4. RF transformers -- Introduction -- Transformer basics -- R.F. considerations -- Baluns -- Line transformers -- Chapter 5. Couplers, hybrids and directional couplers -- References -- Chapter 6. Active components for RF uses -- References -- Chapter 7. RF small-signal circuitry -- References -- Chapter 8. Modulation and demodulation -- References -- Chapter 9. Oscillators -- References -- Chapter 10. RF power amplifiers -- Safety hazards to be considered -- First design decisions -- Levellers, VSWR protection, RF routing switches -- Starting the design -- Low-pass filter design -- Discrete PA stages -- Chapter 11. Transmitters and receivers -- References -- Chapter 12. Advanced architectures -- References -- Chapter 13. Propagation -- References |

-- Chapter 14. Antennas -- References -- Chapter 15. Attenuators and equalizers -- References -- Chapter 16. Measurements -- Measurements on CW signals -- Modulation measurements -- Spectrum and network analysers -- Other instruments -- Appendix 1: Useful relationships -- Appendix 2: S-Parameters -- Appendix 3: Attenuators (pads) -- Appendix 4: Universal resonance curve -- Appendix 5: RF cables -- Appendix 6: Wire gauges and related information -- Appendix 7: Manufacturers of soft-ferrite† and iron-powder** cores -- Appendix 8: Types of modulation - classification -- Appendix 9: Quartz crystals -- Appendix 10: Elliptic filters -- Appendix 11: Screening -- Appendix 12: Worldwide minimum external noise levels. Appendix 13: Frequency allocations and designations -- Appendix 14: SRDs (Short Range Devices) -- Index.

Sommario/riassunto

Radio Frequency (RF) is the fundamental technology behind a huge range of modern consumer electronics and wireless communication devices, and this book provides a comprehensive and methodical guide to RF for engineers, technicians, enthusiasts and hobbyists with an interest in the electronics behind radio frequency communications. In Practical RF Handbook, Ian Hickman draws upon his own radio engineering background to develop a hands-on guide to the difficulties and pitfalls of RF design with a minimum of maths. A broad coverage includes devices, circuits, equipment, systems, radio prop
