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Collana	Microwave and Optical Engineering ; ; v.2
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Soggetti	Microwave devices Radio - Transmitters and transmission
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Microwave and RF Engineering; Contents; About the Authors; Preface; 1 Introduction; 2 Basic electromagnetic theory; 3 Guided EM propagation; 4 Microwave circuits; 5 Resonators and cavities; 6 Impedance matching; 7 Passive microwave components; 8 Microwave filters; 9 Basic concepts for microwave component design; 10 Microwave control components; 11 Amplifiers; 12 Oscillators; 13 Frequency converters; 14 Microwave circuit technology; 15 RF and microwave architectures; 16 Numerical methods and CAD; 17 Measurement instrumentation and techniques Appendix A: Useful relations from vector analysis and trigonometric function identities Appendix B: Fourier transform; Appendix C: Orthogonality of the eigenvectors in ideal waveguides; Appendix D: Standard rectangular waveguides and coaxial cables; Appendix E: Symbols for electrical diagrams; Appendix F: List of acronyms; Index
Sommario/riassunto	An essential text for both students and professionals, combining detailed theory with clear practical guidance This outstanding book explores a large spectrum of topics within microwave and radio

frequency (RF) engineering, encompassing electromagnetic theory, microwave circuits and components. It provides thorough descriptions of the most common microwave test instruments and advises on semiconductor device modelling. With examples taken from the authors' own experience, this book also covers: network and signal theory; electronic technology with guided electromagnetic
