

1. Record Nr.	UNINA9910792713103321
Autore	Varrall Geoffrey
Titolo	5g spectrum and standards // Geoff Varrall
Pubbl/distr/stampa	Norwood, Massachusetts : , : Artech House, , [2016] [Piscataqay, New Jersey] : , : IEEE Xplore, , [2016]
ISBN	1-63081-366-4
Descrizione fisica	1 online resource (336 pages) : illustrations
Collana	Artech House mobile communication series
Disciplina	621.38456
Soggetti	Mobile communication systems Wireless communication systems Cell phone systems - Standards
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	5G Spectrum and Standard; Contents; Acknowledgments; 1Introduction; 1.1 Fifth Generation (5G) Technology Economics; 1.2 Technical and Commercial Innovation by Wavelength; 1.3 RF Performance at Shorter Wavelengths; 1.4 Market and Regionally Specific Requirements; 1.5 Military Millimeter Radio for Wide-Area 5G; 1.6 Coexistence Costs; 1.7 5G Definitions and Spectral Implications ; 1.8 5G and Military and Space Communications Research ; 1.9 The Real Purpose of 5G: A Reduction in Delivery Cost?; 1.10 Understanding Radio: Think Wavelength, Not Frequency; 1.11 5G Wavelengths of Interest. 1.12 The Cost of Coexistence and Complexity1.13 Profitable Spectrum: The Meter Band; 1.14 Five Processing Domains and Their Relevance to 5G Systems; 1.14.1 The Frequency Domain; 1.14.2 The Phase and Amplitude Domain; 1.14.3 The Power Domain; 1.14.4 The Time Domain; 1.14.5 The Spatial Domain; 1.15 Cost and Performance Economics; References ; 2The Technology.
Sommario/riassunto	This new resource provides key insight into future 5G radio systems and the technical and economic impact on industries, communities and end-users. The book offers a comprehensive understanding of the options available for teams tasked with bringing 5G products and

services to market or developing supporting standards and regulatory frameworks. Readers find contemporary examples of millimeter band radio hardware including 60 GHz and V band and E Band point to point radio. This book demonstrates the profound progress with 4G radio signal processing and RF hardware to reveal its potential applicability to 5G radio systems. It shows how 5G systems are capable of delivering data rates that are ten to one hundred times faster than 4G systems. Developments in spatial processing and beam forming in local area radio networks are presented and the challenge of scaling these systems to wide area radio is explored. This book reviews military and space radio and automotive radar innovation with direct relevance to 5G radio design.

2. Record Nr.	UNISANNIOUFI0253948
Autore	Haykin, Simon S. <1931- >
Titolo	Adaptive filter theory / Simon Haykin
Pubbl/distr/stampa	Upper Saddle River (N.J.) [etc.], : Prentice Hall, c1996
ISBN	013322760X 0133979857
Edizione	[3. ed]
Descrizione fisica	XVII, 989 p. : ill. ; 24 cm
Collana	Prentice-Hall information and system sciences series
Disciplina	621.3815 621.3815324
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Collocazione	SALA DING 621.3815 HAY.ad
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