

1. Record Nr.	UNINA9910742501303321
Autore	Morais Douglas H
Titolo	5G NR, Wi-Fi 6, and Bluetooth LE 5 : A Primer on Smartphone Wireless Technologies // by Douglas H Morais
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	3-031-33812-X
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (191 pages)
Disciplina	621.38456
Soggetti	Telecommunication Wireless communication systems Mobile communication systems Cooperating objects (Computer systems) Communications Engineering, Networks Wireless and Mobile Communication Cyber-Physical Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 5G Nr, Wi-Fi 6, and Bluetooth LE 5 Introduction -- Chapter 2 Data Communications Systems Protocol Stacks -- Chapter 3 The Wireless Path -- Chapter 4 Digital Modulation: The Basic Principles -- Chapter 5 Channel Coding and Link Adaptation -- Chapter 6 Channel Usage Techniques -- Chapter 7 Multiple Antenna Techniques -- Chapter 8 5G NR Overview -- Chapter 9 Wi-Fi 6 Overview -- Chapter 10 Bluetooth LE Overview.
Sommario/riassunto	This book provides, at a high level and in a tractable fashion, a description of how wireless communications are achieved in the latest smartphones. The author shows how smartphones communicate via three separate systems, namely 5G NR, Wi-Fi 6, and Bluetooth Low Energy 5. He explains how 5G NR allows mobile voice and high-speed data communication, how Wi-Fi allows smartphone attachment to the Internet independent of 5G NR, and how Bluetooth allows smartphone attachment to speakers, in-car entertainment systems, smart watches, etc. This text explains the key basic technologies employed and then addresses how each system operates. This book is of interest to anyone

with a rudimentary scientific understanding who desires to know more at an intuitive level rather than rigorous one how smartphones achieve wireless communications. Shows how smartphones communicate via 5G NR, Wi-Fi 6, and Bluetooth Low Energy 5; Aimed at those wanting a deeper understanding of how smartphone wireless communication works; Conveys at a high level and in a tractable fashion how wireless communication is achieved in smartphones.

---