1. **Record Nr.**   UNISA996464506903316

   Autore   Boy Guy A.

   Titolo   Design for flexibility : a human systems integration approach / / Guy A. Boy

   Pubbl/distr/stampa   Cham, Switzerland : , : Springer, , [2021]

   ©2021

   ISBN   3-030-76391-9

   Descrizione fisica   1 online resource (122 pages)

   Collana   SpringerBriefs in Human-Computer Interaction

   Disciplina   004.019

   Soggetti   Human-computer interaction - Human engineering

   Human-computer interaction - Psychological aspects

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

2. Record Nr.	UNINA9910828550103321
Autore	Penttinen Jyrki T. J.
Titolo	5G explained : security and deployment of advanced mobile communications / / Jyrki T.J. Penttinen
Pubbl/distr/stampa	Hoboken, New Jersey, USA : , : John Wiley & Sons, Inc., , 2019 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2019]
ISBN	1-119-27570-9 1-119-27573-3 1-119-27569-5
Edizione	[First edition]
Descrizione fisica	1 online resource (418 pages)
Collana	THEi Wiley ebooks.
Disciplina	621.3845/6
Soggetti	Global system for mobile communications - Security measures Global system for mobile communications - Technological innovation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Table of Contents; Author Biography; Preface; Acknowledgments; Abbreviation List; 1 Introduction; 1.1 Overview; 1.2 What Is 5G?; 1.3 Background; 1.4 Research; 1.5 Challenges for Electronics; 1.6 Expected 5G in Practice; 1.7 5G and Security; 1.8 Motivations; 1.9 5G Standardization and Regulation; 1.10 Global Standardization in 5G Era; 1.11 Introduction to the Book; References; 2 Requirements; 2.1 Overview; 2.2 Background; 2.3 5G Requirements Based on ITU; 2.4 The Technical Specifications of 3GPP; 2.5 NGMN; 2.6 Mobile Network Operators; 2.7 Mobile Device Manufacturers; References 3 Positioning of 5G3.1 Overview; 3.2 Mobile Generations; 3.3 The Role of 3GPP in LPWA and IoT; 3.4 The Role of 5G in Automotive (V2X); 3.5 The Role of 5G in the Cyber-World; References; 4 Architecture; 4.1 Overview; 4.2 Architecture; 4.3 Renewed Functionality of the 5G System; 4.4 Supporting Solutions for 5G; 4.5 Control and User Plane Separation of EPC Nodes (CUPS); References; 5 Radio Network; 5.1 Overview; 5.2 5G Performance; 5.3 5G Spectrum; 5.4 5G Radio Access Technologies; 5.5 Uplink OFDM of 5G: CP-OFDM and DFT-s-OFDM; 5.6 Downlink; 5.7 New Radio (NR) Interface of 3GPP; 5.8 User Devices

Sommario/riassunto	Practical Guide Provides Students and Industry Professionals with Latest Information on 5G Mobile Networks Continuing the tradition established in his previous publications, Jyrki Penttinen offers 5G Explained as a thorough yet concise introduction to recent advancements and growing trends in mobile telecommunications. In this case, Penttinen focuses on the development and employment of 5G mobile networks and, more specifically, the challenges inherent in adjusting to new global standardization requirements and in maintaining a high level of security even as mobile technology expands to new horizons. The text discusses, for example, the Internet of Things (IoT) and how to keep networks reliable and secure when they are constantly accessed by many different devices with varying levels of user involvement and competence. 5G Explained is primarily designed for specialists who need rapid acclimation to the possibilities and concerns presented by 5G adoption. Therefore, it assumes some prior knowledge of mobile communications. However, earlier chapters are structured so that even relative newcomers will gain useful information. Other notable features include: -Three modules each consisting of three chapters: Introduction, Technical Network Description and Planning of Security and Deployment -Comprehensive coverage of topics such as technical requirements for 5G, network architecture, radio and core networks and services/applications -Discussion of specific security techniques in addition to common-sense guidelines for planning, deploying, managing and optimizing 5G networks 5G Explained offers crucial updates for anyone involved in designing, deploying or working with 5G networks. It should prove a valuable guide for operators, equipment manufacturers and other professionals in mobile equipment engineering and security, network planning and optimization, and mobile application development, or anyone looking to break into these fields.