1. Record Nr. UNINA9910830427503321 Autore Fang Dongfeng Titolo 5G Wireless Network Security and Privacy / / DongFeng Fang, Yi Qian, and Rose Qingyang Hu Chichester, England:,: John Wiley & Sons Ltd,, [2024] Pubbl/distr/stampa ©2024 **ISBN** 1-119-78431-X 1-119-78434-4 Edizione [First edition.] Descrizione fisica 1 online resource (131 pages) **IEEE Press Series** Collana Disciplina 621.3845/6 Soggetti 5G mobile communication systems - Security measures Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover -- Title Page -- Copyright -- Contents -- About the Authors --Preface -- Acknowledgments -- Introduction -- Chapter 1 Introduction to 5G Wireless Systems -- 1.1 Motivations and Objectives of 5G Wireless Networks -- 1.2 Security Drives and Requirements -- 1.3 5G Wireless Network Architecture -- 1.3.1 Overview of the 5G Wireless Network Architecture -- 1.3.2 Comparison Between the Legacy Cellular Network and the 5G Wireless Network -- 1.4 Conclusion -- Chapter 2 Security from Legacy Wireless Systems to 5G Networks -- 2.1 Network Security for Legacy Systems -- 2.2 Security Attacks and Security Services in 5G Wireless Networks -- 2.2.1 Security Attacks -- 2.2.2 Security Services -- 2.2.2.1 Authentication -- 2.2.2.2 Confidentiality --

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Sommario/riassunto

"5G Wireless Network Security and Privacy addresses the motivation for security and privacy of 5G wireless network systems. The authors? noted experts in the topic? examine and discuss the current vulnerabilities of 5G wireless networks and problems of security and privacy solutions based on the perspectives of security architecture and mechanisms. Comprised of 11 chapters, this book aims to enhance security and network performance, new security architecture and flexible, efficient security mechanisms throughout. It provides a comprehensive understanding on drives and requirements of 5G wireless network security and is packed with insights from professionals. Aimed at researchers and professionals within the field of cybersecurity and 5G wireless networks, 5G Wireless Network Security and Privacy offers in-depth knowledge within the field, enabling readers an insight of the possibilities in 5G today."--