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Descrizione fisica	1 online resource (XVIII, 200 p. 64 illus., 62 illus. in color.)
Disciplina	621.382
Soggetti	Electrical engineering Power electronics Data protection Electronics Microelectronics Application software Energy efficiency Communications Engineering, Networks Power Electronics, Electrical Machines and Networks Security Electronics and Microelectronics, Instrumentation Information Systems Applications (incl. Internet) Energy Efficiency
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter1: 5G Enabled Wireless Networks: A Security, Data and Privacy Perspective -- Chapter2: 5G Applications and Architectures -- Chapter3:A Survey on the Security and the Evolution of Osmotic and Catalytic Computing for 5G Networks -- Chapter4: Physical Layer Security in 5G Hybrid Heterogeneous Networks -- Chapter5: Physical Layer Security of Energy Harvesting M2M Communication System -- Chapter6: Beam-Domain Full-Duplex Massive MIMO Transmission in the Cellular System.
Sommario/riassunto	This book covers issues related to 5G network security. The authors

start by providing details on network architecture and key requirements. They then outline the issues concerning security policies and various solutions that can handle these policies. Use of SDN-NFV technologies for security enhancement is also covered. The book includes intelligent solutions by utilizing the features of artificial intelligence and machine learning to improve the performance of the 5G security protocols and models. Optimization of security models is covered as a separate section with a detailed information on the security of 5G-based edge, fog, and osmotic computing. This book provides detailed guidance and reference material for academicians, professionals, and researchers. Presents extensive information and data on research and challenges in 5G networks; Covers basic architectures, models, security frameworks, and software-defined solutions for security issues in 5G networks; Provides solutions that can help in the growth of new startups as well as research directions concerning the future of 5G networks.

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