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Sommario/riassunto

A concise, updated guide to LTE Security This is a welcome Second Edition of the successful book on LTE Security (2010) addressing the security architecture for LTE as specified by 3GPP. Since 2010, LTE has established itself as the unrivalled mobile broadband technology of the fourth generation (4G), with significant commercial deployments around the world and a fast growing market. The subject of this book is hence even more relevant than it has been at the time of the first edition. The authors explain in detail the security mechanisms employed in LTE and give an overview of the ones in GSM and 3G, which LTE security substantially extends. The specifications generated by standardization bodies inform how to implement the system (and this only to the extent required for interoperability), but almost never inform readers about why things are done the way they are. Furthermore, specifications tend to be readable only for a small group of experts and lack the context of the broader picture. LTE Security Second Edition describes the essential elements of LTE Security, written by leading experts who participated in decisively shaping LTE security in the relevant standardization body, 3GPP, and explains the rationale

behind the standards specifications giving readers a broader understanding of the context to these specifications. . Includes two new chapters covering 3GPP work on Relay Node Security and on system enhancements for Machine-type Communication (MTC), plus application layer security in ETSI TC M2M and embedded smart card in ETSI SCP . Updates existing chapters , including Voice over LTE, Home base stations, and New Cryptographic Algorithms.