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Collana	River Publishers Series in Communications
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	<p>""Cover""; ""Contents""; ""Preface""; ""I: Getting Started""; ""1 Introduction""; ""1.1 1G and Analog Systems""; ""1.2 2G Systems""; ""1.3 3G""; ""1.4 4G""; ""1.5 Femtocells""; ""2 3GPP Architecture and the Femtocell""; ""2.1 UMTS Architecture""; ""2.2 LTE""; ""2.3 Femtocells and Femtocell Architecture""; ""II: Securing the Femtocells""; ""3 Security of Femtocells""; ""3.1 UMTS and LTE Security""; ""3.2 Femtocell Security""; ""3.3 Case Study on Attacks of the Femtocells""; ""4 CDMA Femtocells""; ""4.1 Variations in CDMA Femto Architecture""; ""4.2 CDMA Femtocell Security""; ""4.3 Security Mechanisms and Procedures""; ""4.4 Differences between CDMA and UMTS/LTE Femtocells""; ""5 WiMAX Femtocells""; ""5.1 WiMAX Architecture and the Femto""; ""5.2 WiMAX Femto Functional Components""; ""5.3 WiMAX Femto Security Features and Mechanisms""; ""5.4 Differences between WiMAX and 3GPP/CDMA Femtocells""; ""6 LIPA and SIPTO""; ""6.1 Security Considerations in LIPA and SIPTO""; ""6.2 In Short""; ""7 Security Profiles and IKEv2 Call Flow""; ""7.1 Security Profiles""; ""7.2 IKEv2 Example Call Flow Used in 3GPP""; ""III: From Femtocells to Small Cells""; ""8 From Femtocells to Small Cells""; ""8.1 Small Cells""; ""8.2 Small Cells</p>

and Wi-Fi"; "IV: Outlook and Concluding Remarks"; "9 Conclusion and Outlook"; "Annex"; "A.1 Sample of TR-069 FMS Security Related Parameters"; "A.2 WiMAX SON"; "A.3 CDMA2000 Authentication"; "A.3.1 Global Challenge"; "A.3.2 Unique Challenge"; "Glossary"; "Bibliography"; "About the Author"

Sommario/riassunto

A considerable amount of effort has been devoted, both in industry forums and standards developing organizations, towards creating technical specifications for the architecture, operational, and security of the Femtocells.

2. Record Nr.

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Autore

Chen Jinjie

Titolo

Local Investigation of Single Magnetic Molecules with Scanning Tunneling Microscopy

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Collana

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Sommario/riassunto

We worked on different magnetic molecules containing 3d and 4f magnetic centers. Their growth on metallic surfaces, topographies, spin states, magnetic properties and electron transport were locally investigated by using scanning tunneling microscopy (STM) at temperatures down to 30mK. The main achievement of this dissertation reveals the abrupt switching of crystal fields during formation of molecular contacts.