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Random Matrix Methods for Wireless Communications Romain COUILLET and M erouane DEBBAH May 23, 2011 i. Contents Prefacepage xi Acknowledgments xiii Acronyms xiv Notation xvi 1 Introduction 1 1.1 Motivation1 1.2 History and book outline6 Part I Theoretical aspects 15 2 Random matrices 17

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$(X, Z) \sim \mathcal{N}(0, I_{1+SNR(Z)})$ (3.96) where X and Z are independent random variables uniform on $[0, 1]$ and $[y, 1]$, respectively. A slight variation of the standard uplink MC-CDMA setup, namely a multicode version where users are allowed to signal using several si- multaneous spreading signatures, is treated in [201].

Random Matrix Theory and Wireless Communications

Part I. Theoretical Aspects: 2. Random matrices 3. The Stieltjes transform method 4. Free probability theory 5. Combinatoric approaches 6. Deterministic equivalents 7. Spectrum analysis 8. Eigen-inference 9. Extreme eigenvalues 10. Summary and partial conclusions Part II. Applications to Wireless Communications: 11. Introduction to applications ...

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Regarding applications, the book reviews and sometimes extends results of the last decade of random matrix theory for wireless communications. The most relevant of these applications are divided into several topics: system performance considerations, i.e. capacity estimation and optimization in multi-dimensional communication systems (CDMA, MIMO, multi-user, multi-cellular, etc.), and the more recent statistical inference problems, i.e. signal sensing, parameter estimation and system modeling.

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random matrix theory and particularly of large dimensional random matrix theory from the point of view of their applications to wireless communications in mathematical terms the main objective of the book is to provide the reader with the necessary tools and methods to handle wireless communication problems dealing with random