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Autore	Honig Michael
Titolo	Advances in multiuser detection / / edited by Michael L. Honig
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Edizione	[1st edition]
Descrizione fisica	1 online resource (517 p.)
Collana	Wiley series in telecommunications and signal processing ; ; 99
Altri autori (Persone)	HonigMichael L
Disciplina	621.39
Soggetti	Multiuser detection (Telecommunication) Signal theory (Telecommunication)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface. -- Contributors. -- 1 Overview of Multiuser Detection (Michael L. Honig). -- 1.1 Introduction. -- 1.2 Matrix Channel Model. -- 1.3 Optimal Multiuser Detection. -- 1.4 Linear Detectors. -- 1.5 Reduced-Rank Estimation. -- 1.6 Decision-Feedback Detection. -- 1.7 Interference Mitigation at the Transmitter. -- 1.8 Overview of Remaining Chapters. -- References. -- 2 Iterative Techniques (Alex Grant and Lars K. Rasmussen). -- 2.1 Introduction. -- 2.2 Iterative Joint Detection for Uncoded Data. -- 2.3 Iterative Joint Decoding for Coded Data. -- 2.4 Concluding Remarks. -- References. -- 3 Blind Multiuser Detection in Fading Channels (Daryl Reynolds, H. Vincent Poor, and Xiaodong Wang). -- 3.1 Introduction. -- 3.2 Signal Models and Blind Multiuser Detectors for Fading Channels. -- 3.3 Performance of Blind Multiuser Detectors. -- 3.4 Bayesian Multiuser Detection for Long-Code CDMA. -- 3.5 Multiuser Detection for Long-Code CDMA in Fast-Fading Channels. -- 3.6 Transmitter-Based Multiuser Precoding for Fading Channels. -- 3.7 Conclusion. -- References. -- 4 Performance with Random Signatures (Matthew J. M. Peacock, Iain B. Collings, and Michael L. Honig). -- 4.1 Random Signatures and Large System Analysis. -- 4.2 System Models. -- 4.3 Large System Limit. -- 4.4 Random Matrix Terminology. -- 4.5 Incremental Matrix Expansion. --

4.6 Analysis of Downlink Model. -- 4.7 Spectral Efficiency. -- 4.8 Adaptive Linear Receivers. -- 4.9 Other Models and Extensions. -- 4.10 Bibliographical Notes. -- References. -- 5 Generic Multiuser Detection and Statistical Physics <Dongning Guo and Toshiyuki Tanaka). -- 5.1 Introduction. -- 5.2 Generic Multiuser Detection. -- 5.3 Main Results: Single-User Characterization. -- 5.4 The Replica Analysis of Generic Multiuser Detection. -- 5.5 Further Discussion. -- 5.6 Statistical Physics and the Replica Method. -- 5.7 Interference Cancellation. -- 5.8 Concluding Remarks. -- 5.9 Acknowledgments. -- References. -- 6 Joint Detection for Multi-Antenna Channels (Antonia Tulino, Matthew R. McKay, Jeffrey G. Andrews,.
Iain B. Collings, and Robert W. Heath, Jr.). -- 6.1 Introduction. -- 6.2 Wireless Channels: The Multi-Antenna Realm. -- 6.3 Definitions and Preliminaries. -- 6.4 Multi-Antenna Capacity: Ergodic Regime. -- 6.5 Multi-Antenna Capacity: Non-Ergodic Regime. -- 6.6 Receiver Architectures and Performance. -- 6.7 Multiuser Multi-Antenna Systems. -- 6.8 Diversity-Multiplexing Tradeoffs and Spatial Adaptation. -- 6.9 Conclusions. -- References. -- 7 Interference Avoidance for CDMA Systems (Dimitrie C. Popescu, Sennur Ulukus, Christopher Rose, and Roy Yates). -- 7.1 Introduction. -- 7.2 Interference Avoidance Basics. -- 7.3 Interference Avoidance over Time-Invariant Channels. -- 7.4 Interference Avoidance in Fading Channels. -- 7.5 Interference Avoidance in Asynchronous Systems. -- 7.6 Feedback Requirements for Interference Avoidance. -- 7.7 Recent Results on Interference Avoidance. -- 7.8 Summary and Conclusions. -- References. -- 8 Capacity-Approaching Multiuser Communications Over Multiple Input/Multiple Output Broadcast Channels (Uri Erez and Stephan ten Brink). -- 8.1 Introduction. -- 8.2 Many-to-One Multiple Access versus One-to-Many Scalar Broadcast Channels. -- 8.3 Alternative Approach: Dirty Paper Coding. -- 8.4 A Simple 2 x 2 Example. -- 8.5 General Gaussian MIMO Broadcast Channels. -- 8.6 Coding with Side Information at the Transmitter. -- 8.7 Summary. -- References. -- Index.

Sommario/riassunto

A Timely Exploration of Multiuser Detection in Wireless Networks During the past decade, the design and development of current and emerging wireless systems have motivated many important advances in multiuser detection. This book fills an important need by providing a comprehensive overview of crucial recent developments that have occurred in this active research area. Each chapter is contributed by noted experts and is meant to serve as a self-contained treatment of the topic. Coverage includes: . Linear and decision feedback methods. Iterative multiuser detection and decoding. Multiuser detection in the presence of channel impairments. Performance analysis with random signatures and channels. Joint detection methods for MIMO channels. Interference avoidance methods at the transmitter. Transmitter precoding methods for the MIMO downlink This book is an ideal entry point for exploring ongoing research in multiuser detection and for learning about the field's existing unsolved problems and issues. It is a valuable resource for researchers, engineers, and graduate students who are involved in the area of digital communications.

2. Record Nr. UNINA9910522595403321

Autore	Garcia Vazquez Carlos <1961->
Titolo	Cities after crisis : reinventing neighborhood design from the ground-up / / Carlos Garcia Vazquez
Pubbl/distr/stampa	Taylor & Francis, 2022 New York : , : Routledge, , 2022 ©2022
ISBN	9781003130857 1003130852 9781000440492 1000440494 9781000440485 1000440486
Edizione	[1 ed.]
Descrizione fisica	1 online resource (223 pages)
Classificazione	ARC010000ARC018000POL002000
Disciplina	307.1216 307.116
Soggetti	City planning - Environmental aspects Urban ecology (Biology)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	On values : from modernity to anti-progress -- On the environment : from sustainability to resilience -- On scale : from globalism to localism -- On resources : from privatization to commoning -- On agents : from top-down to bottom-up processes.
Sommario/riassunto	"Cities After Crisis shows how urbanism and urban design is redefining cities after the global health, economic, and environmental crises of the past decades. The book details how these crises have led to a new urban vision-from avantgarde modern design to an artisan aesthetic that calls for simplicity and the everyday, from the sustainable development paradigm to a resilient vision that defends de-growth and the re-wilding of cities, from a homogenizing globalism to a new localism that values what is distinctive and nearby, from the privatization of the public realm to the commoning and self-

	governance of urban resources, and from top-down to bottom-up processes based on the engagement and empowerment of communities. Through a examples from cities around the world and a detailed look at the London neighbourhood of Dalston, the book shows designers and planners how to incorporate residents into the decision-making process, design inclusive public spaces that can be permanently reconfigured, reimagine obsolete spaces to accommodate radically contemporary uses, and build gardens designed and maintained by the community, among other projects"--

3. Record Nr. UNINA9910557734503321

Autore	Rubio Eva M
Titolo	Special Issue of the Manufacturing Engineering Society (MES)
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 online resource (416 p.)
Soggetti	History of engineering and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book derives from the Special Issue of the Manufacturing Engineering Society (MES) that was launched as a Special Issue of the journal Materials. The 48 contributions, published in this book, explore the evolution of traditional manufacturing models toward the new requirements of the Manufacturing Industry 4.0 and present cutting-edge advances in the field of Manufacturing Engineering focusing on additive manufacturing and 3D printing, advances and innovations in manufacturing processes, sustainable and green manufacturing, manufacturing systems (machines, equipment and tooling), metrology and quality in manufacturing, Industry 4.0, product lifecycle management (PLM) technologies, and production planning and risks.