

<<无线与移动通信中的信号处理新技术(>>

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内容概要

《无线与移动通信中的信号处理新技术》丛书，介绍了近年来无线与移动通信中使用的信号处理（SP）工具的最新的重要进展，以及世界范围内该领域的领先者的贡献。

本书是两本书中的第1册。

本丛书的内容涵盖了范围广泛的技术和方法论，包括噪声与干扰消除、调制解调器设计、移动互联网业务、下一代音频/视频广播、蜂窝移动电话和无线多媒体网络等。

本书（第1册）重点阐述单用户点对点链路的信道识别与均衡的关键技术。

由于信息承载信号是在衰落介质中传播的，所以现代的均衡器必须充分考虑移动无线信道的可变性，减小符号间干扰和同（共）信道干扰，并抑制在单个或多个传感器的接收机中的噪声。

本书介绍了最近提出的带宽节省（半）盲算法与性能分析，以及线性预编码技术，这些技术利用发射冗余使基于训练序列的系统获得明显的改善。

本书内容包括：盲识别与反卷积的子空间方法 有色信号驱动的信道的盲识别与均衡 最优子空间方法；多信道均衡的线性预测算法 FIR多信道估计的半盲方法 盲判决反馈均衡等 本书还介绍了世界范围内各种期刊中的研究成果，全面汇集了用于优化单用户点对点链路的先进信号处理技术。

本书对于通信工程、研究人员、管理人员、通信系统设计人员和参与最新通信系统设计或构造的同行将是极其有价值的。

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