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本书从空间多维信号传输以及多天线系统的原理出发，分别介绍了在地基、空基以及天基协同传输系统中如何最大程度利用空间维度资源提升系统性能以及频谱效率。本书主要内容包括自适应天线系统、MIMO多天线系统中的空间多维信号发送、接收，多天线设计以及迭代信号处理等基础理论与关键技术。基于以上理论与技术，本书还从实际应用角度出发，分别介绍了空间多维协同传输在地基、空基以及天基通信系统中的特点及应用。本书内容丰富、结构清晰，是一本理论与实践并重的技术书籍，可作为移动互联网通信相关专业研究生的教材，亦适合从事相关领域研究的科研工作者阅读与参考。

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