

<<天线理论与微带天线>>

图书基本信息

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内容概要

本书天线基础理论部分从线、面基本辐射单元特性出发，介绍由此组成的离散和连续阵的分析综合。

对天线的几个主要参数，系统给出了多种表示法及其相互联系；极化的表示和传输线理论相对应；收发互易由计算接收天线的方向图引入。

同时也介绍了数字波束形成和智能天线等近代进展。

优化设计部分着重介绍商用软件的有效使用，其中包括空域映射、内插和外推、自适应采样等技术。

微带天线部分力求与天线基本理论紧密结合并形成系统，其中包括规则和非规则贴片的设计、方向图计算、阵列设计和有限阵阵中互耦分析、阵列近场诊断。

结合介绍高频方法介绍了微带反射阵、Fresnel区板天线和有限尺寸对方向图的影响。

分析方法涉及腔模和全波。

在全波分析部分深入浅出介绍了谱域方法的精髓。

本书为普通高等教育“十五”国家级规划教材，可作为相关专业本科生和研究生教材，也可作为工程技术人员的参考书。

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