

<<介质导波结构及应用>>

图书基本信息

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前言

This collection of theses on dielectric guiding structures and applications is a summary of research achievements of about 20 projects supported respectively by the National Natural Science Foundation of China , Foundation of Ministry of Science & Technology , Foundation of Education Ministry , the National Defense Technique Council , the State Education Commission , and the Ministry of Information Industry of China etc. The research results are obtained by the faculty and graduates in the Applied Electromagnetics Laboratory in the University of Science and Technology of China. The main research interests of the laboratory lie on the studies of electromagnetic wave phenomena and applications in microwave , millimeter and optical wave engineering. Such as : wave propagation , scattering and radiation in various media and structures; new numerical and analytical methods for analyzing the wave phenomena; new antennas and guiding structures for applications in electronic engineering.

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章节摘录

With the piecewisc-constant profile the structure can be viewed as consisting of uniform waveguides and junctions. The fields can be represented by the complete set of waveguide modes for each uniform region and are then required to satisfy the boundary conditions at each junction. The method of mode matching is then employed to solve the scattcring problem including not only the fundamental mode of interest but also the effect of all the higher order modes.

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