



The RF Transmission Systems Handbook (Electronics Handbook Series)

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Although it is one of the oldest sectors of electronics and now somewhat taken for granted, radio frequency transmission literally changed our world. Today, it is still the backbone of myriad applications, from broadcasting to electronic counter-measures. The wide variety of hardware in use means that those working in the field must be familiar with a multitude of principles and applications, but finding an up-to-date, comprehensive source for this background material has been difficult, if not impossible.

The RF Transmission Systems Handbook addresses the underlying concepts, operation, and maintenance of high-power RF devices, transmission lines, and antennas for broadcast, scientific, and industrial use. Focusing on devices and systems that produce more than one kilowatt of output power, the handbook explores the following major topics:

Applications: The common uses of radio frequency energy

Fundamental principles: The basic technologies, concepts, and techniques used in RF transmission

Power vacuum devices: The principles and applications of gridded vacuum tubes and microwave power devices

Solid-state power devices: The operating parameters of semiconductor-based power devices

RF components and transmission lines: The operation of hardware used to combine and conduct RF power

Antenna systems: The different types of antennas and their basic operating parameters

Troubleshooting: Basic troubleshooting techniques and the operation of important test instruments

Contrary to the perceptions of many, RF technology remains a dynamic field that continues to advance to higher power levels and higher frequencies. Those who specify, install, and maintain RF equipment will welcome this reference that uniquely serves their needs.

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