Practical Radio Frequency Test and Measurement

A Technician's Handbook

Joseph J Carr
Electronics Engineer (avionics) with US Defense Department and leading US electronics author for Newnes and Prompt.

The book will teach readers the basics of performing the tests and measurements used in radio-frequency systems installation, proof of performance, maintenance, and troubleshooting.

Provides immediate applications for anyone who works in or is interested in RF technology Suitable for beginners, intermediate-level users, and advanced users Written by a prolific expert in the RF field

Practical Radio Frequency Test and Measurement teaches readers the basics of performing the tests and measurements used in radio-frequency systems installation, proof of performance, maintenance, and troubleshooting. Anyone interested in gaining more practical proficiency with RF, whether engineer, technician, amateur radio buff, or hobbyist, needs a copy of this book. Joseph J. Carr, himself an accomplished practitioner in this field, examines the instruments used in the various types of measurement before moving on to specific measurement methods. Carr includes information on basic theories of RF measurement, as well as test equipment, test set-ups, test and measurement procedures, and interpretation of results.

Contents: RF Electronic Measurements * RF Components for Test and Measurement * The Smith Chart * Signal Sources and Signal Generators * Spectrum and Network Analyzers * RF Power Measurement * Time, Frequency and Period Measurements * Receiver Measurements * Transmitter Measurements (AM, SSB, FM, PM) * RF Amplifier Measurements * Antenna Pattern Measurement * Antenna and Transmission Line Measurements * L-C Measurements * Time Domain Reflectometry * Bibliography

Readership: RF hobbyists, amateur radio buffs, technicians who use or are thinking of using RF technology, and technicians and engineers interested in gaining more practical proficiency with RF

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