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Solutions Manual Foundation For Microwave Engineering

Solutions Manual

for

Microwave Engineering
Third Edition

Contained here are solutions for all of the end-of-chapter problems in the third edition of Microwave Engineering. Some of these problems require the derivation of theoretical results, but many are design-oriented. Some of these problems are easy, while others are lengthy and challenging. Many of the matching, coupler, filter, and amplifier design problems ask for a CAD analysis of the final circuit, where it is presumed that the student has access to a microwave CAD software tool, such as Ansoft's Sonnet, or similar. There are several such packages that are available for free download on the Internet. The Wiley web site contains Scribble files for the problems and example assemblies for CAD analysis.

Working problems is a critical part of the learning process for engineering students, and these problems have been developed to give students practice in applying the basic concepts of microwave engineering, as well as practice in the analysis and design of practical microwave circuits and components. These problems can be used as assigned homework problems, exam problems, or as supplemental problems for students to work out on their own. The present edition features many new and revised problems, but if additional problems are needed, it should be easy for the instructor to derive new problems from those given in the text. Also new to this edition is the inclusion of short answers to many of the problems at the back of the text.

The majority of these solutions have been checked with known results, compared with independent solutions by others, or in the case of design problems, verified by computer simulation. Such results usually have a check mark to indicate that they have a high (but not perfect) likelihood of correctness. Nevertheless, there are undoubtedly some errors that remain, and the author will be grateful if such mistakes are brought to his attention.

David Pozar
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