



# Meta-Smith Charts and Their Potential Applications (Synthesis Lectures on Antennas)

*Danai Torrungrueng*

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This book presents the developments and potential applications of Meta-Smith charts, which can be applied to practical and useful transmission line problems (e.g., metamaterial transmission lines and nonreciprocal transmission lines). These problems are beyond the capability of the standard Smith chart to be applied effectively. As any RF engineer is aware, a key property of the Smith chart is the insight it provides, even in very complex design processes. Like the Smith chart, Meta-Smith charts provide a useful way of visualizing transmission line phenomena. They provide useful physical insight, and they can also assist in solving related problems effectively. This book can be used as a companion guide in studying Microwave Engineering for senior undergraduate students as well as for graduate students. It is also recommended for researchers in the RF community, especially those working with periodic transmission line structures and metamaterial transmission lines. Problems are also provided at the end of each chapter for readers to gain a better understanding of material presented in this book. Table of Contents: Essential Transmission Line Theory / Theory of CCITLs / Theory of BCITLs / Meta-Smith Charts for CCITLs and BCITLs / Applications of Meta-Smith Charts

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