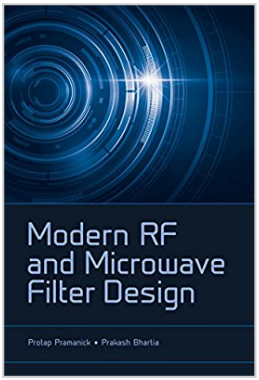

Modern RF and Microwave Filter Design

By Prakash Bhartia, Protap Pramanick

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This authoritative resource presents current practices for the design of RF and microwave filters. This one-stop reference provides readers with essential and practical information in order to design their own filter design software package, ultimately saving time and money. Essential building blocks for each type of filter are presented including network theory, transmission lines, and coupling mechanisms.
This book presents a detailed discussion of the Low Pass Filter prototype, which is then extended to other configurations such as high pass, band pass, band stop, diplexers, and multiplexers. Microwave Network Theory and Transmission Line Coupling Mechanisms are presented along with a comprehensive discussion of the characteristics of commonly used transmission lines such as waveguides, Striplines, and Microstrip lines. Numerous design examples are presented to demonstrate an inclusive design methodology.

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Editorial Review

Review
This book represents a worthy contribution to the literature on microwave filters. It covers almost all possible design types ranging from large waveguide to small printed circuit filters. The treatment is admirably detailed, and a designer would be able to use the presented formulas to carry out any specific design. --Ralph Levy, R. Levy Associates

This book is self-contained and provides all the information required by the reader for the design of different type of filters in any desired transmission line media. In addition, it permits individuals to develop their own software package for filters of interest to them, without having to search elsewhere for additional information. I highly recommend the book for use in the classroom and especially to anyone interested in designing filters for different application. A must have book for your Microwave library. --Shiban K Koul, Indian Institute of Technology Delhi

About the Author
Protap Pramanick is a design engineer at Microwave Engineering Corp. in N. Andover, MA. He received a Ph.D in microwave engineering from Indian Institute of Technology, Kanpur, India.

Prakash Bhartia is the executive vice president at Natel Engineering in Chatsworth, CA. He has held several director level positions during his 25 year career in the Canadian Department of Defense including Director General of the Defense of R& D Laboratories in Halifax and Ottowa. He received his B. Tech in electrical engineering from Indian Institute of Technology, Bombay, India, and received his M.S.c and Ph.D in electromagnetics from University of Manitoba, Winnipeg, Manitoba, Canada.

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