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Lumped Elements for RF and Microwave Circuits
ISBN 978-1-58053-309-6
Inder Bahl
512 pages.
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Book Details
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Reviews

"This book offers a comprehensive treatment of RF and microwave circuit elements, including inductors, capacitors, resistors, transformers, via holes, air bridges and crossovers."
---Microwave Journal, November 2003

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Description

Due to the unprecedented growth in wireless applications over the past decade, development of low-cost solutions for RF and microwave communication systems has become of great importance. This practical new book is the first comprehensive treatment of lumped elements, which are playing a critical role in the development of the circuits that make these cost-effective systems possible. The book offers you an in-depth understanding of the different types of RF and microwave circuit elements, including inductors, capacitors, resistors, transformers, via holes, airbridges, and crossovers.

Supported with over 220 equations and more than 200 illustrations, it covers the practical aspects of each element in exceptional detail. No other single volume treats this subject matter in such depth. From materials, fabrication, and analyses... to design, modeling, and physical, electrical, and thermal applications, this unique resource offers you complete coverage of the critical topics you need understand for your work in the field. Offering the most comprehensive, up-to-date body of knowledge on lumped elements, the book is an indispensable professional reference and serves as an excellent text for senior undergraduate and graduate-level courses in RF and microwave circuit design.

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Author Bio

Inder Bahl is Distinguished Fellow of Technology at M/A-COM, Roanoke, VA. He earned his Ph.D. in microwave engineering from the Indian Institute of Technology. Dr. Bahl is also the coauthor of *Microstrip Antenna Design Handbook*, *RF and Microwave Coupled-Line Circuits*, and *Microstrip Lines and Slotlines*, Second Edition (Artech House 2001, 1999, and 1996).

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