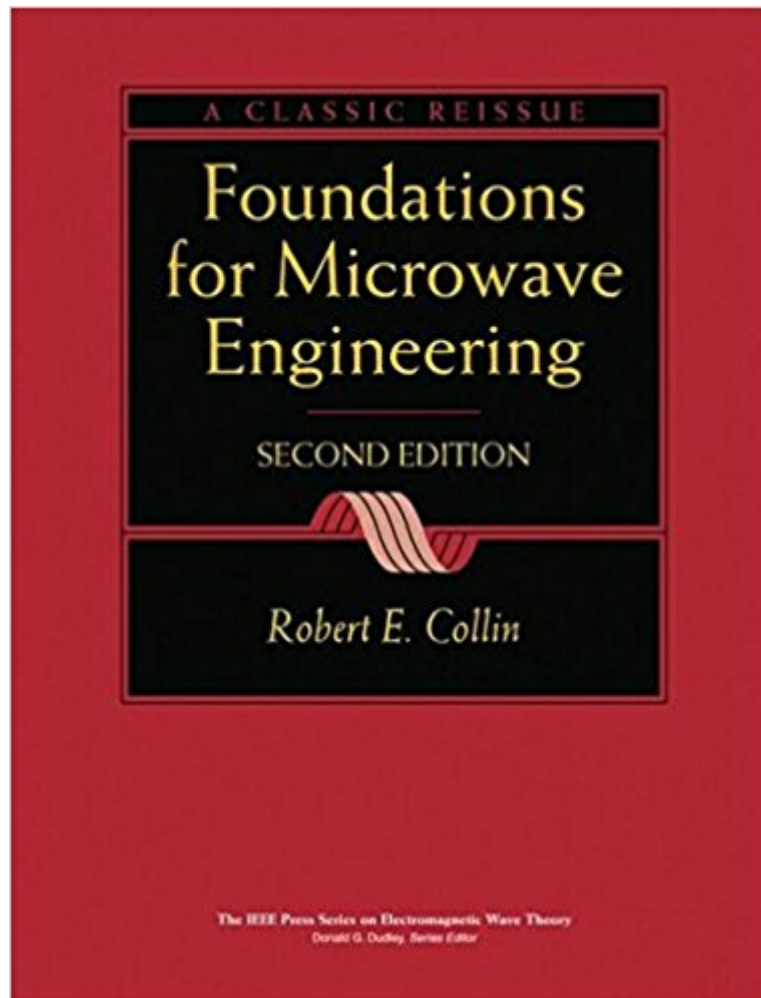




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Foundations For Microwave Engineering - 2nd Edition



Synopsis

FOUNDATIONS FOR MICROWAVE ENGINEERING, Second Edition, covers the major topics of microwave engineering. Its presentation defines the accepted standard for both advanced undergraduate and graduate level courses on microwave engineering. An essential reference book for the practicing microwave engineer, it features: Planar transmission lines, as well as an appendix that describes in detail conformal mapping methods for their analysis and attenuation characteristics Small aperture coupling and its application in practical components such as directional couplers and cavity coupling Printed circuit components with an emphasis on techniques such as even and odd mode analysis and the use of symmetry properties Microwave linear amplifier and oscillator design using solid-state circuits such as varactor devices and transistors FOUNDATIONS FOR MICROWAVE ENGINEERING, Second Edition, has extensive coverage of transmission lines, waveguides, microwave circuit theory, impedance matching and cavity resonators. It devotes an entire chapter to fundamental microwave tubes, in addition to chapters on periodic structures, microwave filters, small signal solid-state microwave amplifier and oscillator design, and negative resistance devices and circuits. Completely updated in 1992, it is being reissued by the IEEE Press in response to requests from our many members, who found it an invaluable textbook and an enduring reference for practicing microwave engineers. Sponsored by: IEEE Antennas and Propagation Society, IEEE Microwave Theory and Techniques Society An Instructor's Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley Marketing Department.

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Microwave Engineering / Foundations for Microwave Engineering Second Edition A Classic Reissue in the IEEE Press Series on Electromagnetic Wave Theory Donald G. Dudley, Series Editor

Foundations for Microwave Engineering, Second Edition, covers the major topics of microwave engineering. Its presentation defines the accepted standard for both advanced undergraduate and graduate level courses on microwave engineering. An essential reference book for the practicing microwave engineer, it features: Planar transmission lines, as well as an appendix that describes in detail conformal mapping methods for their analysis and attenuation characteristics. Small aperture coupling and its application in practical components such as directional couplers and cavity coupling. Printed circuit components with an emphasis on techniques such as even and odd mode analysis and the use of symmetry properties. Microwave linear amplifier and oscillator design using solid-state circuits such as varactor devices and transistors. Foundations for Microwave Engineering, Second Edition, has extensive coverage of transmission lines, waveguides, microwave circuit theory, impedance matching, and cavity resonators. It devotes an entire chapter to fundamental microwave tubes, as well as other chapters on periodic structures, microwave filters, small signal solid-state microwave amplifier and oscillator design, and negative resistance devices and circuits. Completely updated in 1992, it is being reissued by the IEEE Press in response to requests from our many members, who found it an invaluable textbook and an enduring reference for practicing microwave engineers.

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Robert E. Collin is the author or coauthor of more than 150 technical papers and five books on electromagnetic theory and applications. His classic text, *Field Theory of Guided Waves*, is also a volume in the series. Professor Collin has had a long and distinguished academic career at Case Western Reserve University. In addition to his professorial duties, he has served as chairman of the Department of Electrical Engineering and as interim dean of engineering. Professor Collin is a life

fellow of the IEEE and a member of the Microwave Theory and Techniques Society and the Antennas and Propagation Society (APS). He is a member of the U.S. Commission B of URSI and a member of the Geophysical Society. Other honors include the Diekman Award from Case Western Reserve University for distinguished graduate teaching, the IEEE APS Distinguished Career Award (1992), the IEEE Schelkunoff Prize Paper Award (1992), the IEEE Electromagnetics Award (1998), and an IEEE Third Millennium Medal in 2000. In 1990 Professor Collin was elected to the National Academy of Engineering.

This book is very comprehensive and has a lot of equations and models and whatnot to help a professional brush up on their Microwave Engineering HOWEVER this book was published over 10 years ago AND if you are a student trying to study this book the problems will be no help to you whatsoever. With no solutions and no examples on how to do these problems they tend to be confusing and do not aid in the understanding of the course material.

The pictures in the book are not clear.

This is the standard text for the microwave engineer student. The author makes a very comprehensive survey of the field, beginning from basic electromagnetics and circuit theory and analyzing both passive and active devices and circuit. Very good coverage of the microstrip line basic theory which is very hard to find elsewhere. In my opinion professor Collin is a very gifted scientific writer, both clear and accurate. If you want to be a first rate Microwave engineer then you surely need this book. Very good text!

I really like this book- especially the chapter on periodic structures and filters. The book helped me understand how K and J inverters are incorporated into filters and how the equations are formulated.

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