



Electromagnetic Waveguides and Transmission Lines, F. Olyslager, Oxford University Press, 1999, 0191591270, 9780191591273, . This monograph deals with the theoretical aspects of the circuit modelling of high-frequency electromagnetic structures using the Lorentz reciprocity theorem. This is the first book to cover the generalization from closed structures to open-boundary waveguides and circuit structures. The author has developed a new way to represent a general waveguide by transmission lines: and was awarded the Microwave Prize of the IEEE for this work. The first part of the book discusses the construction of transmission line models for waveguide structures. Then the incidence of external electromagnetic waves on high-frequency structures is studied, and finally the concepts derived in the earlier parts of the book are generalized to reciprocal and non-reciprocal anisotropic, bi-isotropic, and bianisotropic materials..

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Computational electrodynamics the finite-difference time-domain method, Allen Taflove, 1995, Science, 599 pages. "An excellent book. Logically organized, well-written, and does a thorough job of presenting the fundamentals of FDTD from underlying theory to implementation details". -- IEEE

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Impedance of resonant transmission lines and waveguides , Stanford University. Electronics Research Laboratory, W. W. Harman, United States. Office of Naval Research, 1948, , 12 pages. .

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Electromagnetic waves in chiral and Bi-isotropic media , Ismo V. Lindell, 1994, , 332 pages. Learn how chiral and BI media affect electromagnetic fields and wave propagation, and how to apply the theory to basic problems in waveguide, antenna, and scattering analysis

Transmission lines, waveguides, and Smith charts , Richard L. Liboff, G. Conrad Dalman, 1985, Technology & Engineering, 269 pages. .

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Theory and Computation of Electromagnetic Fields , Jian-Ming Jin, Mar 16, 2011, Science, 588 pages. This book is intended to serve as a textbook for an entry level graduate course on electromagnetics (first seven chapters) and for an advanced level graduate course on

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