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RECOMMENDED BUT NOT REQUIRED BOOK: Ulaby, Michielssen & Ravaioli,  


III. Vector Analysis. Dot and cross product, divergence and curl operators, Gauss and Stoke’s Theorems


V. Guided electromagnetic waves and their interpretation in terms of uniform plane-wave constituents. Waveguides, including optical fibers. Resonators.

VI. Scattering parameters and applications to microwave measurements

VII. Microwave Applications