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vi Computational Electrodynamics: The Finite-Difference Time-Domain Method 3 Introduction to Maxwell's Equations and the Yee Algorithm Allen Taflove and Jamesina Simpson 51 3.1 Introduction 51 3.2 Maxwell' s Equations in Three Dimensions 51 3.3 Reduction to Two Dimensions 54 3.3.1 TMz Mode 55 3.3.2 TEz Mode 55 3.4 Reduction to One Dimension 56

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