



Electromagnetic Theory for Electromagnetic Compatibility Engineers

Tze-Chuen Toh

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Engineers and scientists who develop and install electronic devices and circuits need to have a solid understanding of electromagnetic theory and the electromagnetic behavior of devices and circuits. In particular, they must be well-versed in electromagnetic compatibility, which minimizes and controls the side effects of interconnected electric devices.?

Designed to entice the practical engineer to explore some worthwhile mathematical methods, and to reorient the theoretical scientist to industrial applications, **Electromagnetic Theory for Electromagnetic Compatibility Engineers** is based on the author's courses taught in industrial settings. The book is a mathematically rigorous exposition of electromagnetic theory with applications in electromagnetic compatibility and high-speed digital design. ?

The topics—ranging from Maxwell's theory and multi-conductor transmission line theory to S-matrix, antenna theory, and dielectric breakdown—were chosen because they have direct relevance to current electromagnetic compatibility problems encountered in the real world. With many worked examples and problem sets, the book relates the theory to practical experiences faced by practitioners. It is written both for physicists and mathematicians new to the field of electromagnetic compatibility and high-speed digital design, as well as established researchers in the field. It is also designed as an advanced undergraduate textbook for a course in electromagnetic theory.

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