



# Electromagnetic Simulation Techniques Based on the FDTD Method (Wiley Series in Microwave and Optical Engineering)

W. Yu

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# **Electromagnetic Simulation Techniques Based on the FDTD Method (Wiley Series in Microwave and Optical Engineering)**

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**Electromagnetic Simulation Techniques Based on the FDTD Method (Wiley Series in Microwave and Optical Engineering)** W. Yu

Bridges the gap between FDTD theory and the implementation of practical simulation techniques

This is the first publication that guides readers step by step through the implementation of electromagnetic simulation techniques based on FDTD methods. These simulation techniques serve as an essential bridge between FDTD methods and their applications. Moreover, the book helps readers better understand the underlying logic of FDTD methods so that they can design FDTD projects using either commercial electromagnetic software packages or their own codes in order to solve practical engineering problems.

The book begins with two chapters that introduce the basic concepts of the 3-D Cartesian FDTD method, followed by discussions of advanced FDTD methods such as conformal techniques, dispersive media, circuit elements, and near-to-far field transformation. Next, the book:

- Presents basic concepts of parallel processing techniques and systems, including parallel FDTD techniques and systems
- Explores simulation techniques based on FDTD methods
- Illustrates practical simulation techniques using engineering applications

Introduces advanced simulation techniques

Each chapter concludes with references to help readers investigate particular topics in greater depth. Each chapter also includes problem sets that challenge readers to put their new FDTD and simulation skills into practice.

By bridging the gap between FDTD theory and practical simulation techniques, this publication is an invaluable guide for students and engineers who need to solve a wide range of design problems in RF, antenna, and microwave engineering.



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