



# The Finite Element Method in Electromagnetics

*Jian-Ming Jin*

Download now

[Click here](#) if your download doesn't start automatically

# The Finite Element Method in Electromagnetics

Jian-Ming Jin

**The Finite Element Method in Electromagnetics** Jian-Ming Jin

**A new edition of the leading textbook on the finite element method, incorporating major advancements and further applications in the field of electromagnetics**

The finite element method (FEM) is a powerful simulation technique used to solve boundary-value problems in a variety of engineering circumstances. It has been widely used for analysis of electromagnetic fields in antennas, radar scattering, RF and microwave engineering, high-speed/high-frequency circuits, wireless communication, electromagnetic compatibility, photonics, remote sensing, biomedical engineering, and space exploration.

*The Finite Element Method in Electromagnetics, Third Edition* explains the method's processes and techniques in careful, meticulous prose and covers not only essential finite element method theory, but also its latest developments and applications—giving engineers a methodical way to quickly master this very powerful numerical technique for solving practical, often complicated, electromagnetic problems.

Featuring over thirty percent new material, the third edition of this essential and comprehensive text now includes:

- A wider range of applications, including antennas, phased arrays, electric machines, high-frequency circuits, and crystal photonics
- The finite element analysis of wave propagation, scattering, and radiation in periodic structures
- The time-domain finite element method for analysis of wideband antennas and transient electromagnetic phenomena
- Novel domain decomposition techniques for parallel computation and efficient simulation of large-scale problems, such as phased-array antennas and photonic crystals

Along with a great many examples, *The Finite Element Method in Electromagnetics* is an ideal book for engineering students as well as for professionals in the field.

 [Download The Finite Element Method in Electromagnetics ...pdf](#)

 [Read Online The Finite Element Method in Electromagnetics ...pdf](#)

## **Download and Read Free Online The Finite Element Method in Electromagnetics Jian-Ming Jin**

---

### **From reader reviews:**

#### **Ronnie Miller:**

Book is to be different for every grade. Book for children till adult are different content. As it is known to us that book is very important for all of us. The book The Finite Element Method in Electromagnetics was making you to know about other understanding and of course you can take more information. It doesn't matter what advantages for you. The e-book The Finite Element Method in Electromagnetics is not only giving you considerably more new information but also being your friend when you sense bored. You can spend your spend time to read your reserve. Try to make relationship together with the book The Finite Element Method in Electromagnetics. You never truly feel lose out for everything if you read some books.

#### **Gale Taylor:**

Nowadays reading books be than want or need but also get a life style. This reading addiction give you lot of advantages. Advantages you got of course the knowledge your information inside the book which improve your knowledge and information. The info you get based on what kind of publication you read, if you want drive more knowledge just go with knowledge books but if you want truly feel happy read one together with theme for entertaining for instance comic or novel. Often the The Finite Element Method in Electromagnetics is kind of book which is giving the reader unstable experience.

#### **Connie Medina:**

Hey guys, do you would like to finds a new book to read? May be the book with the subject The Finite Element Method in Electromagnetics suitable to you? Typically the book was written by well known writer in this era. The actual book untitled The Finite Element Method in Electromagnetics is the one of several books that everyone read now. This book was inspired lots of people in the world. When you read this reserve you will enter the new age that you ever know prior to. The author explained their concept in the simple way, consequently all of people can easily to comprehend the core of this e-book. This book will give you a lot of information about this world now. So you can see the represented of the world on this book.

#### **Harry Keller:**

The book The Finite Element Method in Electromagnetics will bring one to the new experience of reading the book. The author style to spell out the idea is very unique. In case you try to find new book to study, this book very ideal to you. The book The Finite Element Method in Electromagnetics is much recommended to you to learn. You can also get the e-book in the official web site, so you can more readily to read the book.

**Download and Read Online The Finite Element Method in  
Electromagnetics Jian-Ming Jin #5PCDIXMALGH**

## **Read The Finite Element Method in Electromagnetics by Jian-Ming Jin for online ebook**

The Finite Element Method in Electromagnetics by Jian-Ming Jin Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Finite Element Method in Electromagnetics by Jian-Ming Jin books to read online.

### **Online The Finite Element Method in Electromagnetics by Jian-Ming Jin ebook PDF download**

**The Finite Element Method in Electromagnetics by Jian-Ming Jin Doc**

**The Finite Element Method in Electromagnetics by Jian-Ming Jin Mobipocket**

**The Finite Element Method in Electromagnetics by Jian-Ming Jin EPub**