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| Collana | Artech House electromagnetic analysis series |
| Altri autori (Persone) | YuWenhua |
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| Nota di contenuto | Parallel Finite-Difference Time-Domain Method; Contents; Preface; FDTD Method; Chapter 2 Boundary Conditions; Chapter 3 Improvement of the FDTD; Chapter 4 Excitation Source; Chapter 5 Data Collection and Post-Processing; Chapter 6 Introduction to Parallel Computing Systems; Chapter 7 Parallel FDTD Method; Chapter 8 Illustrative Engineering Applications; Chapter 9 FDTD Analysis of Bodies of Revolution; Chapter 10 Parallel BOR/FDTD; Appendix A Introduction to Basic MPI Functions; Appendix B PC Cluster-Building Techniques; List of Notations; About the Authors; Index. |
| Sommario/riassunto | The finite-difference time-domain (FTDT) method has revolutionized antenna design and electromagnetics engineering. This book raises the FDTD method to the next level by empowering it with the vast capabilities of parallel computing. It shows engineers how to exploit the natural parallel properties of FDTD to improve the existing FDTD method and to efficiently solve more complex and large problem sets. Professionals learn how to apply open source software to develop parallel software and hardware to run FDTD in parallel for their projects. The book features hands-on examples that illustrate th. |