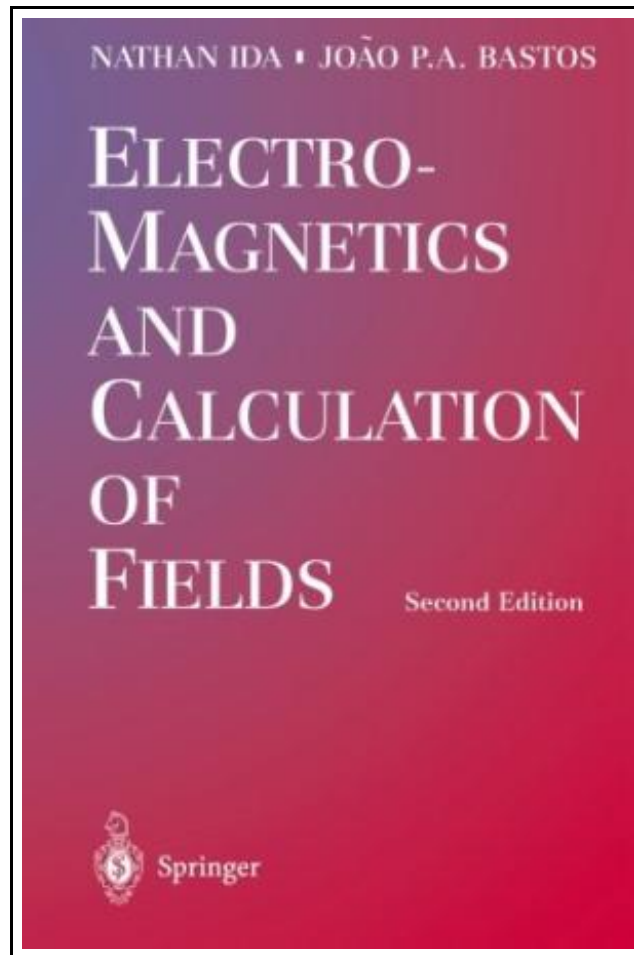


Electromagnetics and Calculation of Fields



Filesize: 7.21 MB

Reviews

This book is really gripping and fascinating. I really could comprehend almost everything using this published e book. I am just very easily can get a delight of reading a published publication.
(Kailey Pacocha)

ELECTROMAGNETICS AND CALCULATION OF FIELDS

DOWNLOAD



To save **Electromagnetics and Calculation of Fields** eBook, make sure you refer to the button listed below and download the file or have access to other information that are have conjunction with ELECTROMAGNETICS AND CALCULATION OF FIELDS book.

Book Condition: New. Publisher/Verlag: Springer, Berlin | This introduction to electromagnetic fields emphasizes the computation of fields and the development of theoretical relations. It presents the electromagnetic field and Maxwell's equations with a view toward connecting the disparate applications to the underlying relations, along with computational methods of solving the equations. | &l. The Electromagnetic Field and Maxwell's Equations.- 1. Mathematical Preliminaries.- 1.1. Introduction.- 1.2. The Vector Notation.- 1.3. Vector Derivation.- 1.3.1. The Nabla (?) Operator.- 1.3.2. Definition of the Gradient, Divergence, and Curl.- 1.4. The Gradient.- 1.4.1. Example of Gradient.- 1.5. The Divergence.- 1.5.1. Definition of Flux.- 1.5.2. The Divergence Theorem.- 1.5.3. Conservative Flux.- 1.5.4. Example of Divergence.- 1.6. The Curl.- 1.6.1. Circulation of a Vector.- 1.6.2. Stokes's Theorem.- 1.6.3. Example of Curl.- 1.7. Second Order Operators.- 1.8. Application of Operators to More than One Function.- 1.9. Expressions in Cylindrical and Spherical Coordinates.- 2. The Electromagnetic Field and Maxwell's Equations.- 2.1. Introduction.- 2.2. Maxwell's Equations.- 2.2.1. Fundamental Physical Principles of the Electromagnetic Field.- 2.2.2. Point Form of the Equations.- 2.2.3. The Equations in Vacuum.- 2.2.4. The Equations in Media with $\epsilon \neq 0$ and $\mu \neq 0$.- 2.2.5. The Equations in General Media.- 2.2.6. The Integral Form of Maxwell's Equations.- 2.3. Approximations to Maxwell's Equations.- 2.4. Units.- 3. Electrostatic Fields.- 3.1. Introduction.- 3.2. The Electrostatic Charge.- 3.2.1. The Electric Field.- 3.2.2. Force on an Electric Charge.- 3.2.3. The Electric Scalar Potential V .- 3.3. Nonconservative Fields: Electromotive Force.- 3.4. Refraction of the Electric Field.- 3.5. Dielectric Strength.- 3.6. The Capacitor.- 3.6.1. Definition of Capacitance.- 3.6.2. Energy Stored in a Capacitor.- 3.6.3. Energy in a Static, Conservative Field.- 3.7. Laplace's and Poisson's Equations in Terms of the Electric Field.- 3.8. Examples.- 3.8.1. The Infinite Charged Line.- 3.8.2. The Charged Spherical Half-Shell.- 3.8.3. The Spherical Capacitor.- 3.8.4. The Spherical Capacitor with Two Dielectric Layers.- 3.9. A Brief...



[Read Electromagnetics and Calculation of Fields Online](#)



[Download PDF Electromagnetics and Calculation of Fields](#)



[Download ePUB Electromagnetics and Calculation of Fields](#)

Other PDFs



[PDF] Would It Kill You to Stop Doing That?

Access the link beneath to get "Would It Kill You to Stop Doing That?" file.

[Save PDF »](#)



[PDF] Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English] (Paperback)

Access the link beneath to get "Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English] (Paperback)" file.

[Save PDF »](#)



[PDF] Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English] (Paperback)

Access the link beneath to get "Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English] (Paperback)" file.

[Save PDF »](#)



[PDF] Violet Rose and the Surprise Party

Access the link beneath to get "Violet Rose and the Surprise Party" file.

[Save PDF »](#)



[PDF] Leila: Further in the Life and Destinies of Darcy Dancer, Gentleman (Donleavy, J. P.)

Access the link beneath to get "Leila: Further in the Life and Destinies of Darcy Dancer, Gentleman (Donleavy, J. P.)" file.

[Save PDF »](#)



[PDF] ESL Stories for Preschool: Book 1 (Paperback)

Access the link beneath to get "ESL Stories for Preschool: Book 1 (Paperback)" file.

[Save PDF »](#)

**[PDF] The Collected Short Stories of W. Somerset Maugham, Vol. 1**

Follow the hyperlink listed below to download and read "The Collected Short Stories of W. Somerset Maugham, Vol. 1" file.

[Read Book »](#)

**[PDF] Read Write Inc. Phonics: Green Set 1 Storybook 6 Tug, Tug (Paperback)**

Follow the hyperlink listed below to download and read "Read Write Inc. Phonics: Green Set 1 Storybook 6 Tug, Tug (Paperback)" file.

[Read Book »](#)

**[PDF] Read Write Inc. Phonics: Green Set 1 Non-Fiction 2 We Can All Swim! (Paperback)**

Follow the hyperlink listed below to download and read "Read Write Inc. Phonics: Green Set 1 Non-Fiction 2 We Can All Swim! (Paperback)" file.

[Read Book »](#)

**[PDF] Read Write Inc. Phonics: Green Set 1 Non-Fiction 5 Camping (Paperback)**

Follow the hyperlink listed below to download and read "Read Write Inc. Phonics: Green Set 1 Non-Fiction 5 Camping (Paperback)" file.

[Read Book »](#)

**[PDF] Read Write Inc. Phonics: Grey Set 7 Storybook 2 the Lion s Paw (Paperback)**

Follow the hyperlink listed below to download and read "Read Write Inc. Phonics: Grey Set 7 Storybook 2 the Lion s Paw (Paperback)" file.

[Read Book »](#)

**[PDF] Read Write Inc. Phonics: Green Set 1 Storybook 5 Black Hat Bob (Paperback)**

Follow the hyperlink listed below to download and read "Read Write Inc. Phonics: Green Set 1 Storybook 5 Black Hat Bob (Paperback)" file.

[Read Book »](#)