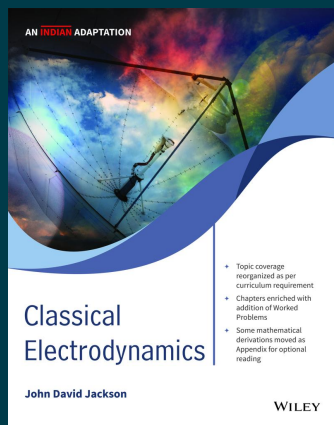


WILEY

Classical Electrodynamics, An Indian Adaptation

By John David Jackson

Paperback

ISBN: 9789388991070

Publication: [NOT PROVIDED] *publication_date*

Page Count: 832 pages

₹1,179.00

• Description

Classical Electrodynamics is a comprehensive and classical text for an undergraduate course in electricity and magnetism and graduate course in classical electromagnetism for students majoring in physics and related fields. The goal of the text is threefold. First goal is to provide the basic subject matter as a coherent whole, together in their physical and mathematical description mode; second is to develop and utilize the topics in mathematical physics and third is to present the interactions of relativistic charged particles with electromagnetic fields; thus making this book useful for theoretical physics, experimental nuclear and high-energy physics.

• About the Author

John David Jackson

John David Jackson is the author of Classical Electrodynamics, 3rd Edition

• Table of Contents

Introduction and Survey

I.1 Maxwell Equations in Vacuum, Fields, and Sources

I.2 Inverse Square Law or the Mass of the Photon

I.3 Linear Superposition

I.4 Maxwell Equations in Macroscopic Media

I.5 Boundary Conditions at Interfaces between Different Media

I.6 Some Remarks on Idealizations in Electromagnetism

Chapter 1 / Introduction to Electrostatics

1.1 Coulomb's Law

1.2 Electric Field

1.3 Gauss's Law

1.4 Differential Form of Gauss's Law

1.4 Another Equation of Electrostatics and the Scalar Potential

1.6 Surface Distributions of Charges and Dipoles; Discontinuities in the Electric Field and Potential

1.7 Poisson and Laplace Equations

1.8 Green's Theorem

1.9 Uniqueness of the Solution with Dirichlet or Neumann Boundary Conditions

1.10 Formal Solution of Electrostatic Boundary-Value Problem with Green Function

1.11 Electrostatic Potential Energy and Energy Density; Capacitance

Chapter 2 / Boundary-Value Problems in Electrostatics: I

2.1 Method of Images

2.2 Point Charge in the Presence of a Grounded Conducting Sphere

2.3 Point Charge in the Presence of a Charged, Insulated

To purchase this product, please visit:

<https://wiley.indiafin.com/classical-electrodynamics-an-indian-adaptation.html>



Scan to buy