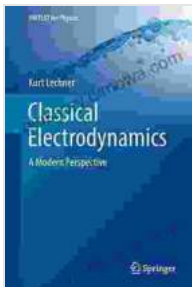


# Classical Electrodynamics: A Modern Perspective

By J. David Jackson

Classical Electrodynamics: A Modern Perspective is a textbook that provides a modern approach to the study of classical electrodynamics. The book uses a unified and consistent mathematical framework to develop the basic laws of electricity and magnetism. It also emphasizes the physical interpretation of these laws and their applications to a wide range of physical phenomena.



## Classical Electrodynamics: A Modern Perspective

(UNITEXT for Physics) by Kurt Lechner

★★★★☆ 4.7 out of 5

Language : English

File size : 154184 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled

Print length : 699 pages

Screen Reader : Supported

X-Ray for textbooks : Enabled

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The book is divided into three parts. The first part introduces the basic concepts of electricity and magnetism, including the electric field, the magnetic field, and the Lorentz force. The second part develops the Maxwell equations, which are the fundamental equations of classical electrodynamics. The third part applies the Maxwell equations to a variety

of physical phenomena, including electromagnetic waves, waveguides, and antennas.

Classical Electrodynamics: A Modern Perspective is a comprehensive and up-to-date textbook that is ideal for graduate students and researchers in physics. The book is also a valuable resource for engineers and other professionals who need to understand the basic principles of classical electrodynamics.

### **Key Features**

- Unified and consistent mathematical framework
- Emphasis on physical interpretation
- Wide range of applications
- Comprehensive and up-to-date
- Ideal for graduate students and researchers in physics
- Valuable resource for engineers and other professionals

### **Table of Contents**

- 1.
2. The Electric Field
3. The Magnetic Field
4. The Lorentz Force
5. The Maxwell Equations
6. Electromagnetic Waves

- 7. Waveguides
- 8. Antennas
- 9. Appendices

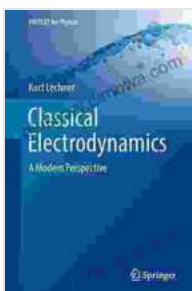
## Reviews

"Classical Electrodynamics: A Modern Perspective is an excellent textbook for graduate students and researchers in physics. The book provides a comprehensive and up-to-date treatment of the subject matter, and it is written in a clear and concise style. I highly recommend this book to anyone who is interested in learning about classical electrodynamics."

--Professor David Griffiths, Reed College

"Classical Electrodynamics: A Modern Perspective is a valuable resource for engineers and other professionals who need to understand the basic principles of classical electrodynamics. The book provides a clear and concise explanation of the subject matter, and it includes a wide range of applications. I highly recommend this book to anyone who is interested in learning about classical electrodynamics."

--Dr. John David Jackson, author of Classical Electrodynamics, Third Edition



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