



Lectures on Classical Electrodynamics

Berthold-Georg Englert

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These lecture notes cover classical electrodynamics at the level of advanced undergraduates or postgraduates. There is a strong emphasis on the general features of the electromagnetic field and, in particular, on the properties of electromagnetic radiation. It offers a comprehensive and detailed, as well as self-contained, account of material that can be covered in a one-semester course for students with a solid undergraduate knowledge of basic electricity and magnetism. **Contents:**

- Maxwell's Equations
- Electromagnetic Pulses
- Lorentz Transformation
- 3+1-Dimensional Notation
- Action, Reaction — Interaction
- Retarded Potentials
- Radiation Fields
- Spectral Properties of Radiation
- Time-Dependent Spectral Distribution
- Synchrotron Radiation
- Scattering
- Diffraction

Readership: Advanced undergraduates, postgraduates and researchers in classical electrodynamics.

Key Features:

The presentation does not skip the technical details which renders the book particularly well-suited for the self-studying student

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