



# Electricity and Magnetism

*P.F. Kelly*

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The final volume in a three-part series, **Electricity and Magnetism** provides a detailed exposition of classical electric and magnetic fields and analyses of linear electric circuits. The book applies the principles of classical mechanics to systematically reveal the laws governing observed electric and magnetic phenomena. The text culminates in Maxwell's Equations, which, although only four in number, can completely describe all physical aspects of electromagnetism.

The specific topics covered in **Electricity and Magnetism** include:

- Electric force, field, and potential
- Gauss's Law for Electric Fields
- Capacitance and networks of capacitors
- Electric current
- Resistance and networks of resistors
- Kirchoff's Rules
- Steady state and time-dependent DC circuit dynamics
- Magnetic force and field
- Production of magnetic fields
- Ampère's Law
- Gauss's Law for Magnetic Fields
- Faraday's Law
- Induction and inductance
- AC-driven circuit dynamics and energetics
- Maxwell's Equations and their plane-wave vacuum solutions

This text extends the rigorous calculus-based introduction to classical physics begun in *Elements of Mechanics*. It may be studied independently of the second volume, *Properties of Materials*. With more than four hundred and fifty problems included, it can serve as a primary textbook in an introductory physics course, as a student supplement, or as an exam review for graduate or professional studies.

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