



# Electromagnetic Theory (Oxford Lecture Series in Mathematics and Its Applications)

*Attay Kovetz*

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This textbook is intended for undergraduate and graduate students taking an intermediate or advanced course in electromagnetism. It presents electromagnetism as a classical theory, based, like mechanics, on principles that are independent of the atomic constitution of matter. This book is unique among electrodynamics texts in its treatment of the precise manner in which electromagnetism is linked to mechanics and thermodynamics. A clear distinction is maintained between such concepts as field and force, or radiation and heat. Applications include radiation from charged particles, electromagnetic wave propagation and guided waves, thermoelectricity, magnetohydrodynamics, piezoelectricity, ferroelectricity, paramagnetic cooling, ferromagnetism and superconductivity. There are 225 worked examples of dynamical and thermal effects of electromagnetic fields, and of effects resulting from the motion of bodies. The concise, methodological approach of this book will be valuable to students and will make it of special interest to tutors and lecturers.

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