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Course Description. Electromagnetic Theory covers the basic principles of electromagnetism: experimental basis, electrostatics, magnetic fields of steady currents, motional e.m.f. and electromagnetic induction, Maxwell's equations, propagation and radiation of electromagnetic waves, electric and magnetic properties of matter, and conservation laws. This is a graduate level subject which uses appropriate mathematics but whose emphasis is on physical phenomena and principles.

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David Tong: Lectures on Electromagnetism. These lecture notes provide a comprehensive introduction to Electromagnetism, aimed at undergraduates. Individual chapters and problem sheets are available below. The full set of lecture notes come in around 210 pages and can be downloaded here. Please do email me if you find any typos or corrections.

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#### ELECTROMAGNETIC FIELD THEORY

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