



# Calculations in Fundamental Physics: Electricity and Magnetism: Volume 2 (C.I.L.)

*T. Heddle*

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**Calculations in Fundamental Physics: Electricity and Magnetism: Volume 2 (C.I.L.)** T. Heddle  
Calculations in Fundamental Physics, Volume II: Electricity and Magnetism focuses on the processes, methodologies, and approaches involved in electricity and magnetism.

The manuscript first takes a look at current and potential difference, including flow of charge, parallel conductors, ammeters, electromotive force and potential difference, and voltmeters. The book then discusses resistance, networks, power, resistivity and temperature, and electrolysis. Topics include shunts and multipliers, resistors in series, distribution circuits, balanced potentiometers, heating, resistance thermometry, and thermistors.

The text explains electrolysis and thermoelectricity, including electroplating, Avogadro's number, and thermoelectric power. The manuscript describes magnetic fields and circuits and inductors. Concerns include straight conductors, series circuits, magnetic moments, stored energy, and mutual inductance. The book also takes a look at electric fields, transients, and direct current generators and motors.

The manuscript is a dependable reference for readers wanting to be familiar with electricity and magnetism.

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