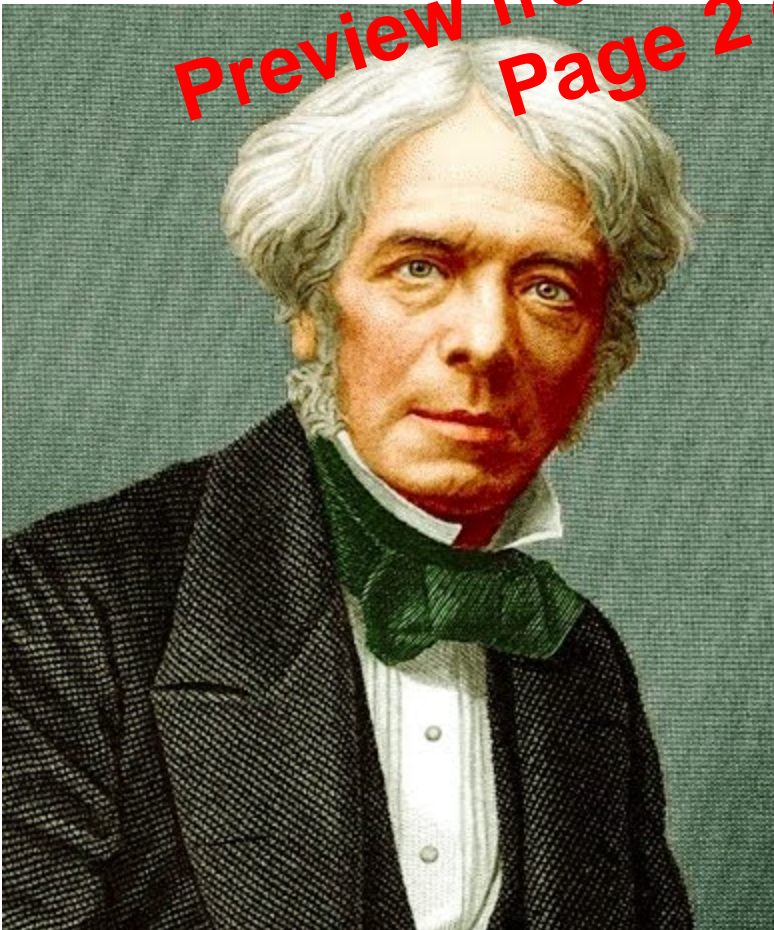


# Chapter 7 Magnetostatic Field

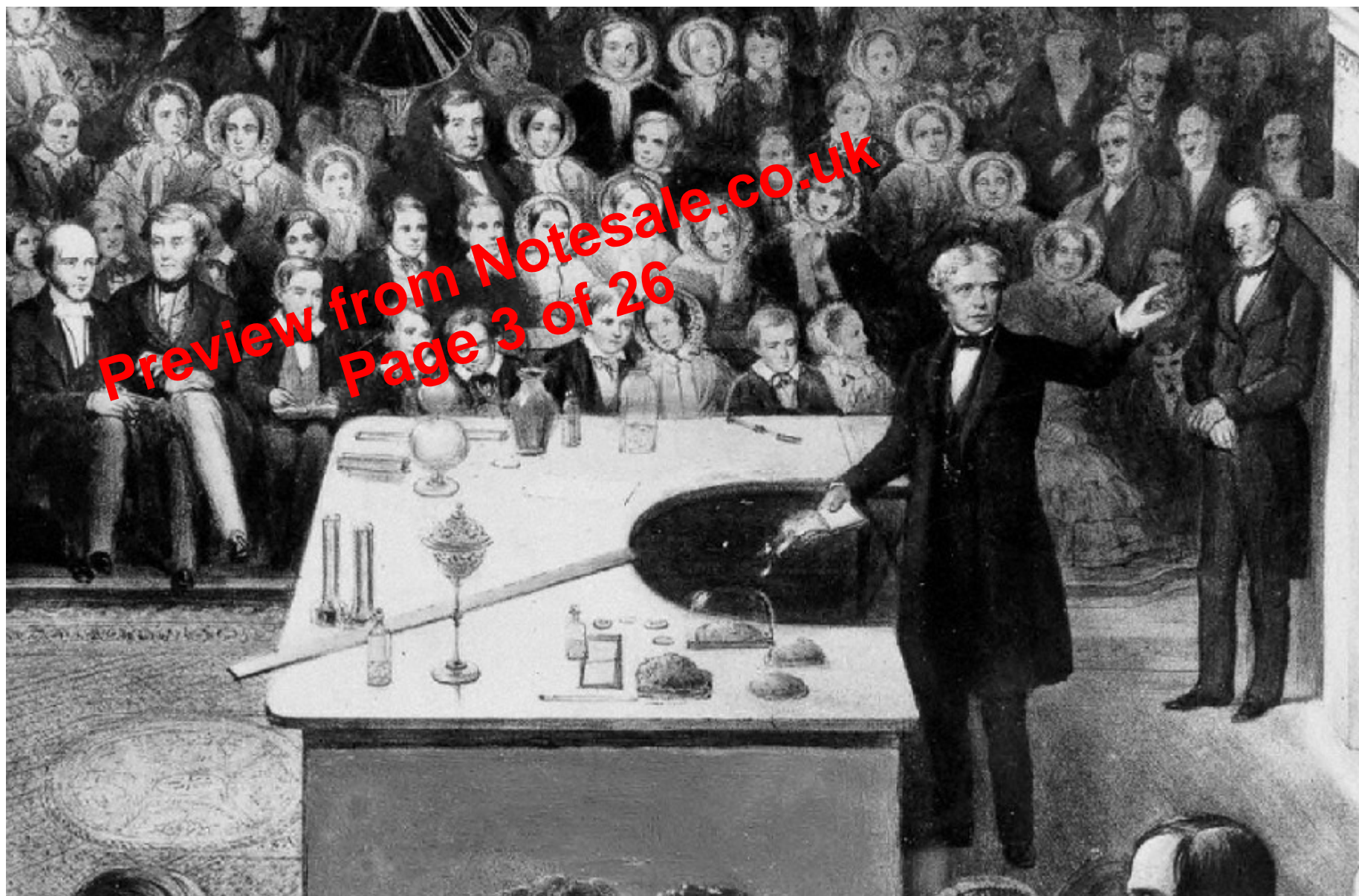
7.1 Faraday's Law

7.2 Displacement Current

Preview from [Notesale.co.uk](http://Notesale.co.uk)  
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**Michael Faraday**



## *Faraday's Law Experiment*

1. A coil of wire, X, was connected to a battery.
2. The current that flowed through X produced a magnetic field that was intensified by the iron core.
3. Faraday hoped that by using a strong enough battery, a steady current in X would produce a great enough magnetic field to produce a current in a second coil Y.
4. This second circuit, Y, contained a galvanometer to detect any current but contained no battery.
5. He met no success with steady currents.

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# Transformer and Motional EMFs