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contributions of two science giants,  
Michael Faraday and James Clerk  
Maxwell. Authors Nancy Forbes and Basil  
Mahon join forces to provide the public a  
very enjoyable look at how the these  
two scientists built from successive  
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Maxwell to Electrical Science deals with the development of electromagnetic theory following the establishment of the basis for the first law of circulation relating to the magnetic fields generated by steady currents.

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Electromagnetic or magnetic induction is the production of an electromotive force (i.e., voltage) across an electrical conductor in a changing magnetic field. Michael Faraday is generally credited with the discovery of induction in 1831, and James Clerk Maxwell mathematically described it as Faraday's law of induction.

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## **Electromagnetic induction - Wikipedia**

The electromagnetic waves about whose existence Faraday speculated in 1846 with his thoughts on ray vibrations, and which were mathematically predicted by Maxwell in 1865, were finally produced in a laboratory by Hertz in 1888. The

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rest is history.

## **Faraday and the Electromagnetic Theory of Light | OpenMind**

In 1856 Maxwell developed the theory that the energy of the electromagnetic field is in the space around the conductors as well as in the conductors themselves. By 1864 he had formulated

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his own electromagnetic theory of light, predicting that both light and radio waves are electric and magnetic phenomena.

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Inspired by the cleverness of this idea, Maxwell sat down with pencil and paper

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and put together the experimental results with Faraday's hunch, using beautiful mathematics. He showed that you could describe all of electricity and magnetism with the idea of a field, a single electromagnetic field which permeates all of space.

## **The discovery of electromagnetic**

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James Clerk Maxwell has utilized the ideas of Faraday as the basis of his quantitative electromagnetic theory. In the year 1834, Heinrich Lenz has invented the law to explain the flux throughout the circuit. The induced e.m.f direction can be received from the Lenz's law & the current results from the



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electromagnetic induction.

## **Electromagnetic Induction: Faraday Laws and Applications**

The Maxwell-Faraday equation (listed as one of Maxwell's equations) describes the fact that a spatially varying (and also possibly time-varying, depending on how a magnetic field varies in time) electric

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field always accompanies a time-varying magnetic field, while Faraday's law states that there is EMF (electromotive force, defined as electromagnetic work done on a unit charge when it has traveled one round of a conductive loop) on the conductive loop when the magnetic flux through the ...

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**Faraday's law of induction -  
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Revolutionized Physics (Book) : Forbes,  
Nancy : Random House, Inc. The story of  
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how these two men - separated in age  
by forty years - discovered the existence  
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a radically new theory which overturned  
the strictly mechanical view of the world  
that had prevailed since Newton's time.

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The unification of electric and magnetic phenomena in terms of fields was born out of Faraday's physical vision and Maxwell's mathematical genius. The life and science of these two giants of nineteenth-century physics is beautifully documented and narrated in this riveting book.



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This general form is known by a variety of names; here we refer to it as the Maxwell-Faraday Equation (MFE). The integral form of the Maxwell-Faraday Equation (Equation 8.8.3) states that the electric potential associated with a closed path  $C$  is due entirely to

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electromagnetic induction, via Faraday's Law.

## **8.8: The Maxwell-Faraday Equation - Engineering LibreTexts**

Faraday was unburdened by this legacy and articulated the view that was ultimately proven correct - electromagnetic fields, with curved lines

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of force permeating all of space, with  
electromagnetic waves travelling at a  
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Faraday's law says that a time-varying normal component of the magnetic field would produce a non-zero tangential electric field, so the normal component of the magnetic must be stationary. ...

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