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s law of induction is presented on this page we start
with the original experiments and the give the equation
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much derided at the time grew into maxwell's
sophisticated mathematical theory which predicted that
every time a magnet jiggled or an electric current was
turned on or off a wave of electromagnetic energy
would spread out into space like a ripple on a pond
changing the nature of space itself"maxwell's
equations and electromagnetic waves

May 25th, 2020 - the other two maxwell's equations
discussed below are for integrals of electric and magnetic
fields around closed curves taking the product of the field
pointing along the curve these represent the work that
would be needed to take a charge around a closed curve in
an electric field and a magnetic monopole if one existed
around a closed curve in a magnetic field"**faraday maxwell**
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our conception of the structure of reality since newton laid
the foundation of theoretical physics was brought about by
faraday s and maxwell s work on electromagnetic field
phenomena'

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represent the pinnacle of classical electromagnetic
theory subsequent developments in the theory have
been concerned either with the relationship between
electromagnetism and the atomic structure of matter or
with the practical and theoretical consequences of
maxwell s equations'**

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theory of electromagnetic radiation was without doubt
his greatest piece of work it revolutionarised the way
we view the world changing our perspective from
newton s purely mechanical model of differential
equations to a physical reality represented by
continuous fields that were subject to partial**

differential equations"faraday s laws of electromagnetic induction first

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