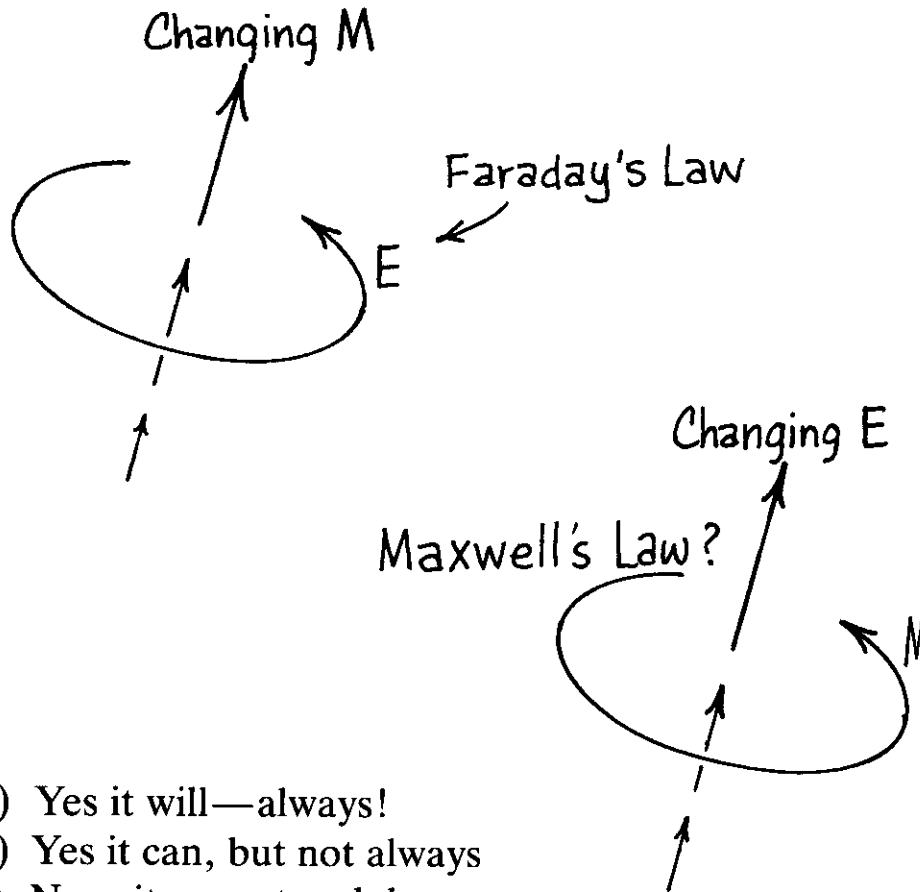


ELECTROMAGNETISM'S HEART

Faraday's law of electromagnetic induction states that a voltage and resulting electric current will be induced in a conducting loop through which a magnetic field is changing with time. Maxwell re-expressed this in terms of fields by stating that a changing magnetic field will induce an electric field. Is the converse found to be the case also—that is, will a changing electric field induce a magnetic field?



- a) Yes it will—always!
- b) Yes it can, but not always
- c) No—it cannot and does not