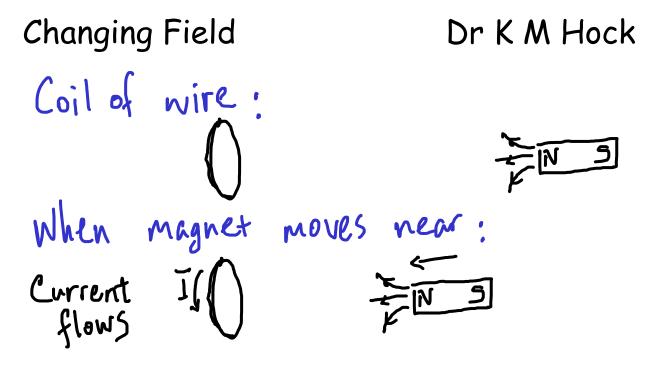
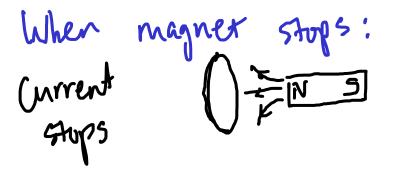
deduce from Faraday's experiments on electromagnetic induction or other appropriate experiments: (i) that a changing magnetic field can induce an e.m.f. in a circuit



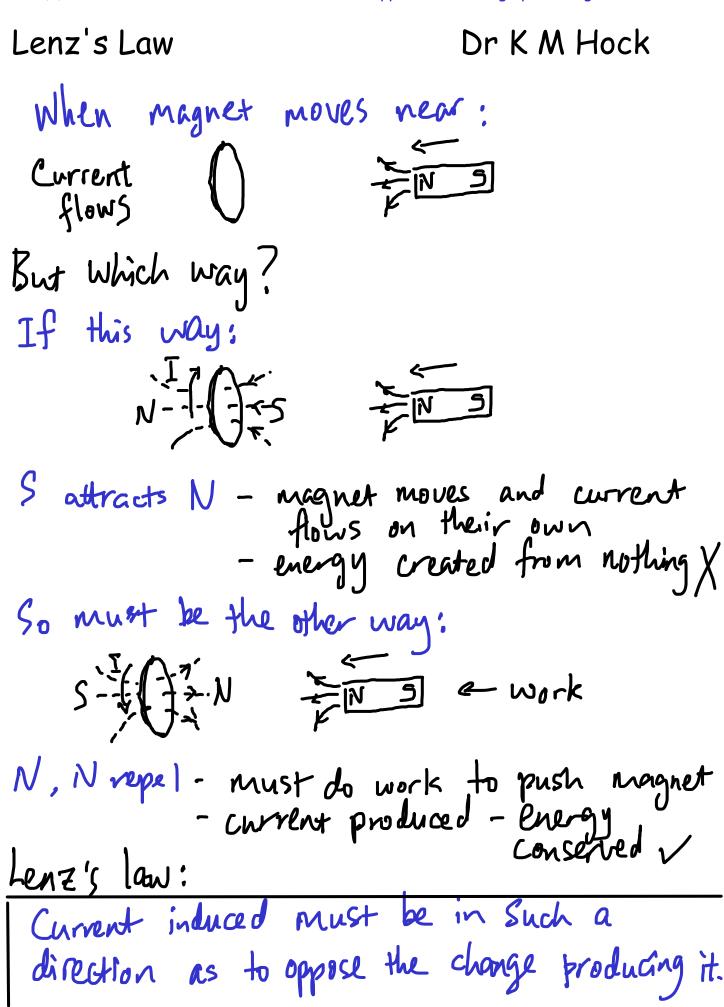


When magnet moves away: Current I() FNS

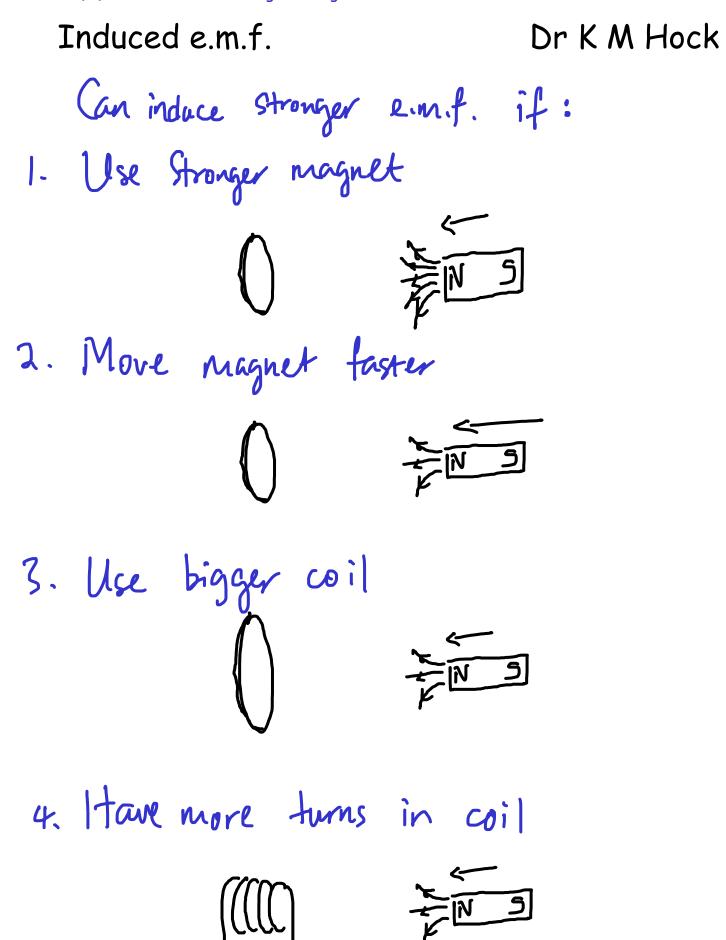


Changing magnetic field induces l.m.f. in circuit.

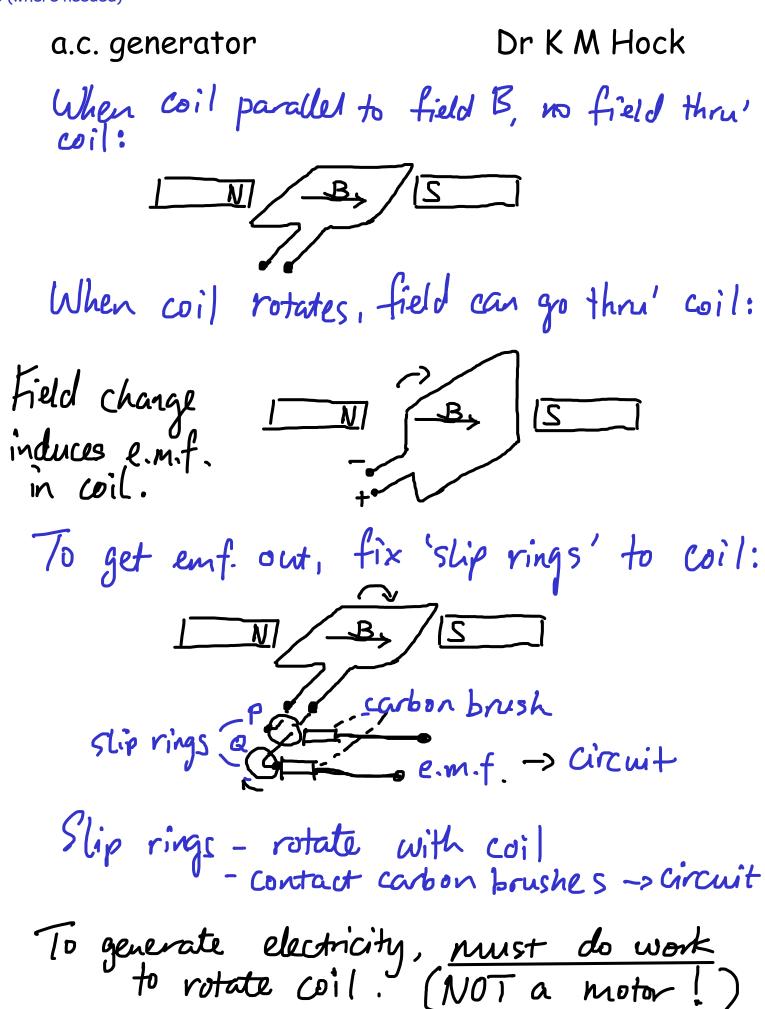
deduce from Faraday's experiments on electromagnetic induction or other appropriate experiments: (ii) that the direction of the induced e.m.f. opposes the change producing it



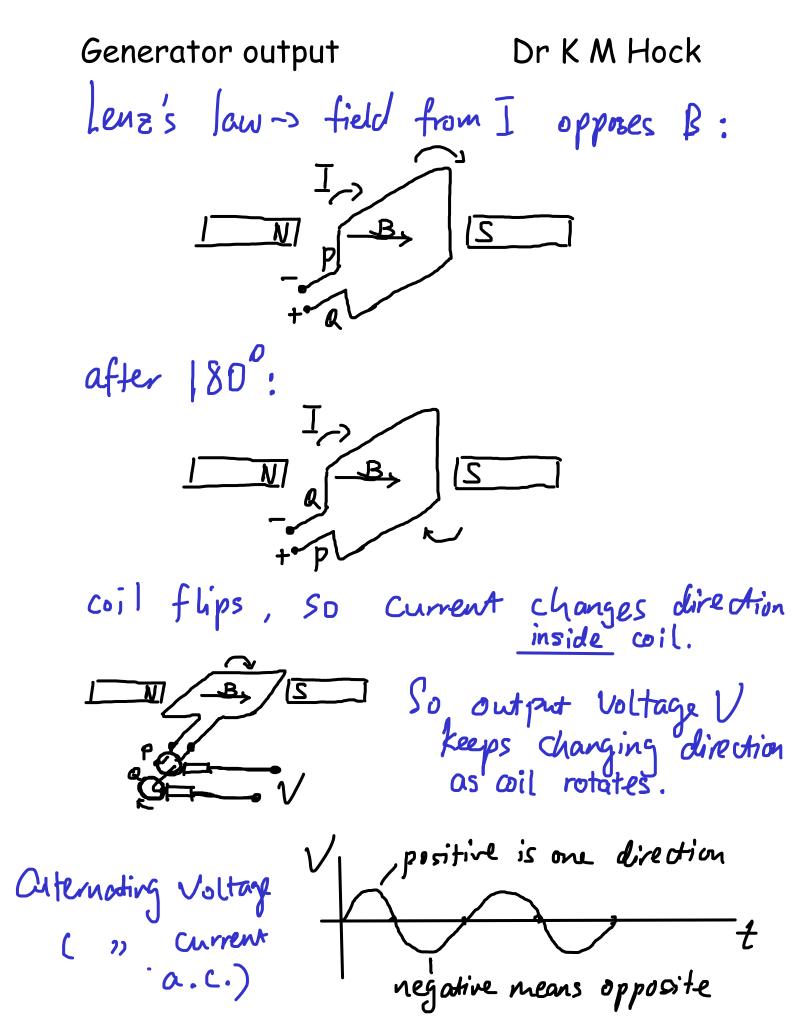
deduce from Faraday's experiments on electromagnetic induction or other appropriate experiments: (iii) the factors affecting the magnitude of the induced e.m.f.



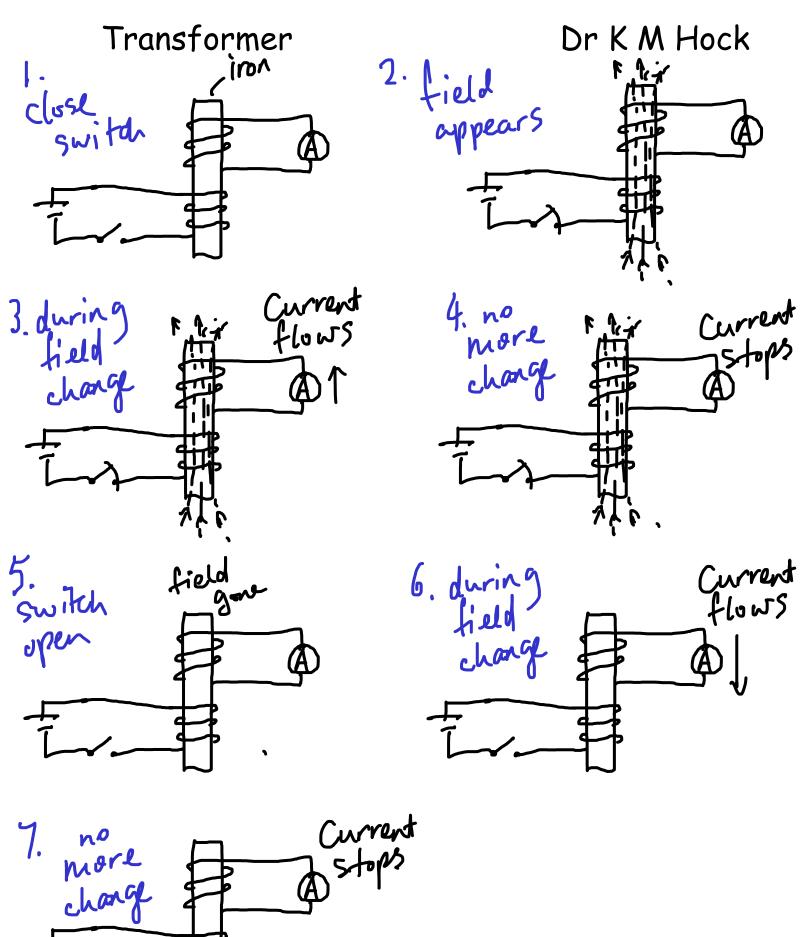
describe a simple form of a.c. generator (rotating coil or rotating magnet) and the use of slip rings (where needed)



sketch a graph of voltage output against time for a simple a.c. generator



describe the structure and principle of operation of a simple iron-cored transformer as used for voltage transformations



recall and apply the equations $V_p / V_s = N_p / N_s$ and $V_p I_p = V_s I_s$ to new situations or to solve related problems (for an ideal transformer)

