Batteries and Electric Fields

An electric field (sometimes called E-field [1]) is the physical field that surrounds electrically charged particles. Charged particles exert attractive forces on each other when their charges ...

In summary, the conversation discusses the concept of EMF in batteries and how it is related to the electric field inside the battery. The participants have different views on how ...

The first important thing that"s different: there is now an electric field across the electrolyte which allows a current to flow inside the battery ...

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Experiments with electric charges have shown that if two objects each have electric charge, then they exert an electric force on each other. The magnitude of the force is linearly proportional to ...

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The first important thing that"s different: there is now an electric field across the electrolyte which allows a current to flow inside the battery (note that this diagram uses the ...

These reactions occur whenever current is flowing externally between the electrodes, either in charging the battery or (in reverse during) discharging. This causes a ...

These reactions occur whenever current is flowing externally between the ...

electrons to get from one terminal to another. An electric fleld inside the battery builds up,pointingfromthe+terminaltothe¡terminal. ThisfleldopposesthemotionofH+ ...

If you had, say, a resistor in your circuit, then there is an electric field inside the resistor driving the current, so those surfaces orthogonal to the electric field cross through the ...

The region around a charged body within which it can exert its electrostatic influence may be called an electric field. In principle, it extends to infinity, but in practice it falls off more or less ...

Yes, there is an electric field around a disconnected cell -- an electrostatic field, just as if you ran a comb through your hair and p;laced it near an electroscope. In fact, one of ...

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