

# Electrical Engineering Principles

EET 212C

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\*Topic 2 of the Course:  
Cells & Batteries - Primary Cells

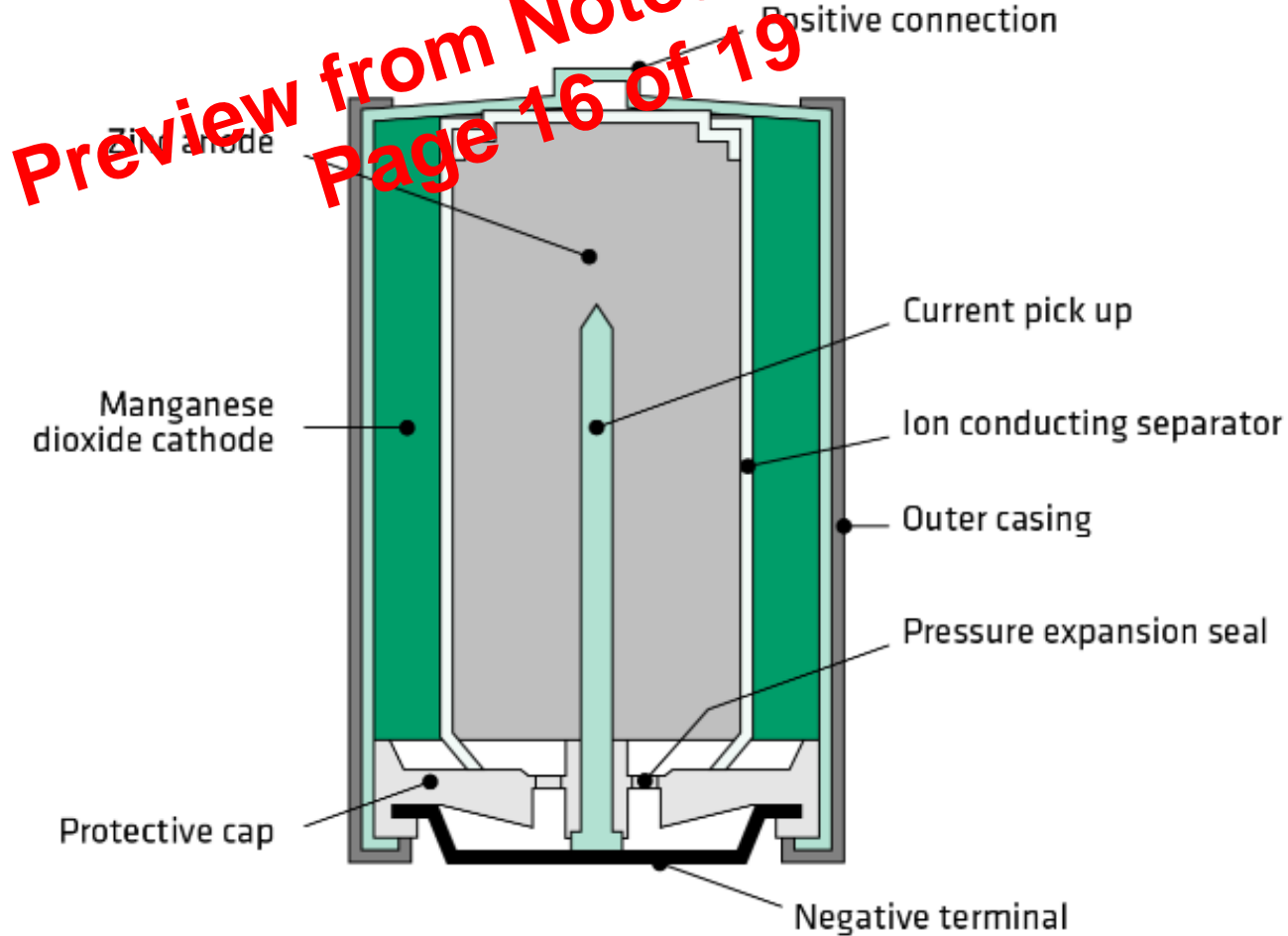
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# Alkaline cell

- In an alkaline battery, the negative electrode is zinc and the positive electrode is manganese dioxide ( $\text{MnO}_2$ ). The alkaline electrolyte of potassium hydroxide is not part of the reaction, only the zinc and  $\text{MnO}_2$  are consumed during discharge. The alkaline electrolyte of potassium hydroxide remains, as there are equal amounts of  $\text{OH}^-$  consumed and produced.

# Alkaline Cell (Cont')



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