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$\text{CO} + \frac{1}{2} \text{O}_2 \rightarrow \text{CO}_2$ is a full-cell reaction common in SOFCs; the half-cell reactions would be $\text{O}_2 + \text{CO} \rightarrow \text{CO}_2 + 2 \text{e}^-$, which is an Oxidation, or anode, reaction, and $\frac{1}{2} \text{O}_2 + 2 \text{e}^- \rightarrow \text{O}^{2-}$ which is a reduction, or cathode reaction. 2. $\frac{1}{2} \text{O}_2 + \text{H}_2 \rightarrow \text{H}_2\text{O}$ is a full cell reaction in SOFCs or PEMs, depending on the circulating ion (O^{2-} or H^+ , respectively).

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Solution Manual for Fuel Cell Fundamentals – 3rd Edition Author(s) : Ryan O'Hayre, Suk-Won Cha, Whitney Colella, Fritz B. Prinz This solution manual is for 3rd edition's textbook. It include chapters 1 to 14.

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Fuel Cell Principles examines the basics of fuel cell physics, including fuel cell thermodynamics, kinetics, transport, and modeling. Fuel Cell Technology explores fuel cell types, the latest electrical and hydrogen technology, and the design of systems and subsystems based on application, performance, cost, and environmental impact.

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Problem 1.8 (20 points) You can see the benefits in a fuel cell of the independent scaling of the fuel reservoir and the fuel cell stack. Therefore, for this problem, you may compute the volume of the stack and the reservoir independently. For the stack, you need to supply 30 kW with a fuel cell that supplies power at 1 kW/L and 500 W/kg.

Fuel Cell Fundamentals Solutions

The book also introduces the five types of fuel cells (PEMFC, PAFC, AFC, MCFC, SOFC) and gives the reader a good understanding of the characteristics, advantages and disadvantages to each one, allowing for easy comparison.

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Fuel Cell Fundamentals is an introductory-level textbook covering the basic science and engineering behind fuel cell technology. Focusing on the fundamentals, it provides straightforward descriptions of how fuel cells work, why they offer the potential for high efficiency, and how their unique advantages can best be used.

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