



## **PEM Fuel Cell Durability Handbook, Two-Volume Set: PEM Fuel Cell Diagnostic Tools (Pem Fuel Durability Handbook)**

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# PEM Fuel Cell Durability Handbook, Two-Volume Set: PEM Fuel Cell Diagnostic Tools (Pem Fuel Durability Handbook)

## PEM Fuel Cell Durability Handbook, Two-Volume Set: PEM Fuel Cell Diagnostic Tools (Pem Fuel Durability Handbook)

**PEM Fuel Cell Diagnostic Tools** presents various tools for diagnosing PEM fuel cells and stacks, including *in situ* and *ex situ* diagnostic tools, electrochemical techniques, and physical/chemical methods. The text outlines the principles, experimental implementation, data processing, and application of each technique, along with its capabilities and weaknesses.

The book covers many diagnostics employed in the characterization and determination of fuel cell performance. It discusses commonly used conventional tools, such as cyclic voltammetry, electrochemical impedance spectroscopy, scanning electron microscopy, and transmission electron microscopy. It also examines special tools developed specifically for PEM fuel cells, including transparent cells, cathode discharge, and current mapping, as well as recent advanced tools for diagnosis, such as magnetic resonance imaging and atomic force microscopy. For clarity, the book splits these diagnostic methodologies into two parts—*in situ* and *ex situ*. To better understand the tools, PEM fuel cell testing is also discussed. Each self-contained chapter provides cross-references to other chapters.

Written by international scientists active in PEM fuel cell research, this volume incorporates state-of-the-art technical advances in PEM fuel cell diagnosis. The diagnostic tools presented help readers to understand the physical and chemical phenomena involved in PEM fuel cells.

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