

„Polymer Electrolyte Fuel Cell Degradation”
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Chapter 1:

Title: Durability Status and Targets of PEFC Engines

Authors and Affiliation: E. Wargo, C. R. Dennison, and E.C. Kumbur, Drexel University

Chapter 2:

Title: Membrane Durability: Physical and Chemical Degradation

Authors and Affiliation: Yeh-Hung Lai, Frank Coms Craig Gittleman, General Motors Fuel Cell

Activities

Chapter 3:

Title: Electrochemical Degradation: Electrocatalyst and Support Durability

Authors and Affiliation: Shyam Kocha, Nissan Motor Company

Chapter 4:

Title: BiPolar Plate Degradation

Authors and Affiliation: Hazem Tawfik (Distinguished Professor at Farmingdale State University of

New York) Yue. Hung (Brookhaven National laboratory), and Devinder. Mahajan (Stony Brook

University)

Chapter 5:

Title: Review of Freeze-Related Degradation in Polymer Electrolyte Fuel Cells

Authors and Affiliation: A. K. Srouji and M. M. Mench (University of Tennessee, Knoxville)

Chapter 6:

Title: Experimental Diagnostics and Durability Testing Protocols

Authors and Affiliation: Rob Darling (United Technologies Research Center), Ryan Balliet (Assistant Specialist at U.C. Berkeley Chemical Engineering), Mike Perry (United Technologies Research Center)

Chapter 7:

Title: Advanced High Resolution Imaging Techniques for Diagnosis

Authors and Affiliation: Dr. Feng-Yuan Zhang, Prof. Suresh G. Advani, and Prof. Ajay K. Prasad.

The University of Delaware

Chapter 8:

Title: Computational Modeling Aspects of PEFC Durability

Authors and Affiliation: Dr. Yu Morimoto, Toyota Motor Company