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Sommario/riassunto

This book, edited by Nicolas Alonso-Vante and Vito Di Noto, provides a comprehensive exploration of membrane fuel cells, focusing on the methods, modeling, and applications of this technology. It delves into system-level constraints, fuel cell design, and the fundamental principles underpinning the operation of polymer electrolyte membrane (PEM) fuel cells. The book discusses the kinetics of fuel cell reactions, the role of catalysts, and the durability and performance assessment of fuel cells. It also explores recent advances in hydrogen oxidation reactions and the development of PGM-free catalysts. Intended for researchers and professionals in the field, this resource aims to support the development of clean and sustainable energy technologies.

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