

Control of fuel cell power systems

As the authors so rightly say in their Preface, control engineers have different requirements from modelling, experimental studies and simulation work for designing a good control system and this monograph presents a control-oriented; tated approach to these topics in the fuel cell power system field.

Control of fuel cell power systems: principles, modelling, analysis and feedback design, Jay T. Pukrushpan, Anna G. Stefanopoulou and Huei Peng, Springer, London, U.K., xvii + 161pp - Guzzella - 2005 - International Journal of Robust and Nonlinear Control - Wiley Online Library. Book Review. Free Access.

A review and analysis of a fuel cell system modelling and controller design for electric fuel cell vehicle applications and the basic principal of PEM fuel cell dynamics is presented. Expand 19

System-level dynamic models of fuel cell power plants built from physics-based component models are extremely useful in understanding the system-level interactions, implications for system performance, and model-aided controller design. The system-level dynamic models also help in evaluating alternative;

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In Control of Fuel Cell Power Systems the application of fuel cells in automotive powertrains is emphasized because of the significance of the contribution to global CO₂ emissions made by ground vehicle propulsion and because of the challenge presented by the accompanying control problems. The authors' comprehensive control-oriented approach provides:

- o An overview of the underlying physical principles and the main control objectives and difficulties associated with the implementation of fuel cell systems.
- o Formulation, in-depth analysis and detailed control design for two critical control problems, namely, the control of the cathode oxygen supply for a high-pressure direct hydrogen fuel cell system and control of the anode hydrogen supply from a natural gas fuel processor system.



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