Energy Technology
Generation, Conversion, Storage, Distribution

Table of Contents entry

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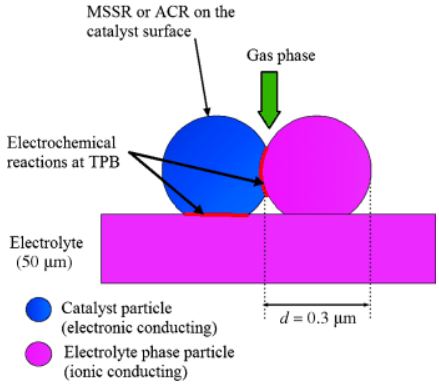
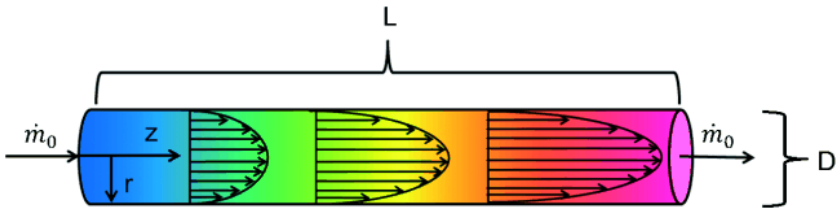


Good assumption! The assumption of local thermal equilibrium is commonly used without validation for modeling solid oxide fuel cells. Based on theoretical analysis, this study finds the local non-equilibrium thermal effects to be negligible, thus confirming the validity of the local thermal equilibrium assumption for solid oxide fuel cells running on various fuels, considering both methane internal reforming and ammonia thermal cracking in the anode.



Model Behavior: A hydrodynamic model is used to predict the fluid-dynamic behavior of the reformation of jet fuel into hydrogen and carbon monoxide in supercritical water using a tubular reactor. This reaction results in a large net generation of molar flow that can have a drastic effect on fluid dynamics and reactor residence times.