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Model-Based Development Of A Fault Signature Matrix To Improve Solid Oxide Fuel Cell Systems On-Site Diagnosis

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#### ACCEPTED MANUSCRIPT

#### **HIGHLIGHTS**

- An SOFC system dynamic model has been used to simulate normal and faulty conditions.
- An available Fault Signature Matrix based on Fault Tree Analysis has been improved.
- Missed fault and false alarm probabilities have been taken into account.
- Five faults have been simulated at stack and balance of plant level.
- Two threshold-dependent Modified Fault Signature Matrices have been obtained.

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