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Rayleigh copula for describing impedance data – with application to condition monitoring of proton exchange membrane fuel cells

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Highlights

- In the statistical domain impedance is a ratio of two Rayleigh random variables.
- Impedance characteristic as a whole is described with a multivariate distribution.
- The multivariate distribution is built using bivariate Rayleigh copula functions.
- The proposed condition indicator is probability of observing specific characteristic.
- The approach detects and evaluates flooding and drying faults with various severity.

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