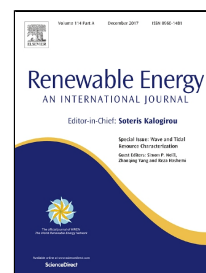


# Accepted Manuscript

## Parameter-varying Modelling and Fault Reconstruction for Wind Turbine Systems

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### Highlights

- Develop a parameter-varying modelling method for wind turbine systems
- Propose an adaptive state/fault reconstruction approach for wind turbine systems
- Real-time state/fault monitoring with on-line parameter updating
- Simulation verification on a real-time 4.8MW benchmark wind turbine system

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