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Condition Based Monitoring of Small Wind Turbine

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This paper presents the research activity performed on the Small Wind System test stand. Commercially available turbine was modified towards incorporation of the sensors system for condition monitoring. Installed sensors measure angular shaft position, torque applied from the wind loads and vibration accelerations and last but not least rotational speed. All gathered data is then transferred and processed in Test.Lab all by means of automatic in house developed visual basic application which afterwards converts TDF files to text files and stores them in desired directory. Obtained signals are used as input parameters for AMESim simulation of the same Small Wind System. The numerical simulation is being run in parallel to installed sensors measurements and is as well controlled by the same visual basic application. Having real measurements and numerical simulation results one will be able to compare those two outcomes.

Ключевые слова:

Содержание.

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