Torrent Ni Labview Electrical Power Suite |VERIFIED|

pierre vettian, a phd student in cemse, is a member of the secure next generation resilient systems lab (sentry) at king abdullah university of science and technology (kaust). his research interests are in secure, trustworthy, and resilient cyber-physical and embedded iot systems. he is also interested in critical infrastructures security and resilience and on energy systems with a focus on renewable energy integration. a small wind turbine of 30 kw is emulated in labview using opal-rt simulator. the power-motor speed characteristics for different armature voltages in the motor are like the power-turbine speed characteristics for varying wind speeds. conventional wind turbine controllers do not have such speed profiles. to emulate a small wind turbine, a bldc motor is used, which has a different speed characteristic, similar to that of a variable-speed wind turbine. hence the wind turbine model is a generalization of the motor model. the wind turbine model generates a reference armature current that is compared with the actual armature current of the motor. the pi controller is used here to minimize the current error and provides a desired switching pulse to the mosfet. part 1: the global power systems transition to nearly 100% renewable-based generation presents new challenges not only in terms of control strategies but also in terms of tools required to perform hil simulations. in this context, conventional generators such as synchronous machines may be gradually replaced by power electronic converters or similar generation units. hil simulation setups of large grid models with multiple switching inverters are a challenge due to the high-level of accuracy required. the coupling of the power electronic domain with the network-level domain is currently the major issue to overcome. two approaches are followed: the first one involves the coupling of the fpga and the cpu model, while the second one uses the artemis library.

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