Wind power generation control system based on labview

This paper presents a control system for wind power generation based on LabVIEW. DSP was used in the control system. An embedded real-time operation system was transplanted into the hardware ...

To improve the efficiency of the wind power generation, this article proposes an active disturbance rejection controller (ADRC) based MPPT strategy, and establishes a LabVIEW FPGA platform ...

This article briefly introduces the doubly-fed wind power system and describes how you can design and verify its controller using the LabVIEW Control Design and Simulation Module.

The emulator includes: a Lab View real time model of the wind turbine, an induction machine drive with direct torque control (the wind turbine mechanical system equivalent) coupled with the real generator ...

In this article, the monitoring and coordination control of systems with diesel power generation, wind power generation, load and energy storage are realized via combined programming using LabVIEW ...

In this project you will work beside other members of the student competition team for small wind turbine, and work on modelling and integrating of available control systems using LabView.

This project presents hardware results of power extracted using second order sliding mode control of a DFIG based wind turbine and it is integrated with LABVIEW using GUI.

You can use LabVIEW and the LabVIEW Control Design and Simulation Module to simulate a full wind turbine system, including the wind turbine, mechanical drive train, generator, ...

Using the National Instruments CompactRIO platform with FPGA and real-time software, we built a framework that managed motor controls and system operations. The platform ensured real-time ...

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