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Analysis of Short Circuit Current Calculation and Comparison for Doubly Fed Induction GeneratorDfig Control Using Differential Flatness

The differential flatness property shows that the design of a DFIG controller is possible using feed-forward control terms which are complemented by suitable error feedback terms. The design of the DFIG controller consists of two stages: (i) in the outer-loop the controller enables convergence of the stator's magnetic flux and of the rotor's angular velocity to the associated reference setpoint.

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The property of differential flatness indicates that the design of a DFIG controller is possible using feed-forward control terms which are complemented by suitable error feedback terms.

Doubly-fed induction generators control using the ...

The chapter shows how differential flatness theory can provide efficient solutions to the following problems: (i) adaptive control of distributed power generators, (ii) state estimation-based control of PMSG, (iii) state estimation-based control of DFIG, (iv) state estimation-based control and synchronization of distributed power generators of PMSG type.

Differential Flatness Theory and Electric Power Generation ...

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Abstract: The paper studies differential flatness properties and an input-output linearization procedure for doubly fed induction generators (DFIGs). By defining flat outputs which are associated with the rotor's turn angle and the magnetic flux of the stator, an equivalent DFIG description in the Brunovksy (canonical) form is obtained.

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Flatness in systems theory is a system property that extends the notion of controllability from linear systems to nonlinear dynamical systems.A system that has the flatness property is called a flat system.Flat systems have a (fictitious) flat output, which can be used to explicitly express all states and inputs in terms of the flat output and a finite number of its derivatives.

Flatness (systems theory) - Wikipedia

Release of DFIG during disturbances can cause the production of electricity will be disrupted. By applying the proper control design, the quality of electricity supply during a disturbance can be corrected. In this research, the optimal design of PI controller in the rotor side converter (RSC) with DFIG wind turbine using the Differential Evolutionary Algorithm (DE) is proposed to improve the DFIG performance during disturbance.

Optimal controller for doubly fed induction generator ...

The property of differential flatness indicates that the design of a DFIG controller is possible using feed-forward control terms which are complemented by suitable error feedback terms.

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DFIG Control Using Differential Flatness Theory and ...

The article presents new results on the control of Doubly-fed Induction Generators (DFIGs) with the use of differential flatness theory and adaptive control theory. The control problem of DFIGs is nontrivial because the dynamic model of such electric machines is a multi-variable and nonlinear one.

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An open-loop control algorithm that minimizes the overall system losses was developed making use of the differential flatness of the mathematical model of the plant. The aim of this cooperation with ABB and Dr.-Ing. A. Gensior (TU Dresden) is to advance the theoretical control approach and to implement the algorithm in a real plant.

DFIG | Saarland University

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The performance of vector controlled DFIG highly depends on PI controller parameters. The objective of this paper is to optimize the performance of vector controlled DFIG in multi-machine power systems under faulty conditions by tuning the parameters using advanced differential evolution algorithm.