
May 1, 2017 The inverter current is adjusted by multi-PR (proportional-resonant) controllers, where its harmonic components are regulated to zero resulting in a sinusoidal grid current. In ?

Jul 16, 2022 For the control of the DC side bus voltage of the wind power grid-connected inverter, traditional method generally adopts the double closed loop structure of the voltage ?

Jul 15, 2025 The presented strategy incorporates the DC-link voltage regulation term into the power regulation term in the grid-side converter (GSC) cost function, identifying the optimum ?

Nov 9, 2019 In order to improve the dynamic response speed and the steady-state performance of the DC side bus voltage of the wind power grid-connected inverter, a mathematical model of ?

Dec 23, 2021 The wind power grid-connected inverter system has the characteristics of non-linearity, strong coupling, and susceptibility to grid voltage fluctuations and non-linear loads. ?

Apr 1, 2025 First, the GSI model is constructed by integrating the DC voltage outer loop, AC current outer loop, and AC voltage inner loop, accounting for instantaneous power fluctuations ?

The control of the voltage outer loop is adjusted based on the difference between the given DC side voltage and the feedback, to achieve the purpose of maintaining voltage stability ...

Mar 27, 2024 The stability of the DC side voltage in wind power systems affects the safety and stability of the system, as well as the independent management of the generator and grid ?

Nov 3, 2025 Berkani et al. [13] investigated an improvement of the control of the DC link voltage of a dual star synchronous machine. The authors propose the sliding mode approach to drive ?

Jul 3, 2025 This chapter provides a thorough performance evaluation of a Quasi Z-Source Inverter (qZSI) used in grid-connected wind-photovoltaic (PV) co-generation systems. ?

Dec 10, 2024 This paper proposes a novel bus voltage control strategy based on LADRC, taking the grid-connected DC microgrid as the backdrop and the bidirectional grid-connected inverter ?

Jul 15, 2022 Abstract: In this paper the most effective vector control scheme is applied for the accurate

control on grid side of a grid integrated power conversion system. Here three-phase ?

Nov 1, 2021 The condition of DC overvoltage fault in inverter is that the DC capacitor voltage exceeds maximum allowable voltage U_{max} and maintains for a period of time, which triggers ?

Jan 1, 2021 In the research of power oscillations caused by interaction between permanent magnetic synchronous generator (PMSG)-based wind farms and AC systems, influences of ?

Aug 17, 2022 In order to improve the anti-disturbance performance of the direct current (DC) bus voltage in wind power grid-connected system, a new double closed-loop structure based on ?

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