

Solar Energy South Africa

Yufeng modified generator



Overview

Who is Dr Yufeng Yue?

Dr. Yufeng Yue is a professor at the School of Automation, Beijing Institute of Technology. He received the B.Eng. degree in automation from the Beijing Institute of Technology in 2014. He obtained the PhD degree in Robotics from Nanyang Technological University in Singapore in 2019, under the supervision of Prof. Danwei Wang.

What is a virtual synchronous generator (VSG)?

The virtual synchronous generator (VSG) control generates amplitude, frequency, and phase angle for its terminal voltage based on its power command, ensuring the ability to contribute to the regulation of grid voltage and frequency .

What is the PFR dead-band frequency of thermal power generators in China?

The PFR dead-band frequency of SGs is 0.033 Hz, which is the typical value of thermal power generators in China. The other parameters of the system can be found in [30, 31]. The key parameters of RES power plant and M-VSG are listed in Table 2. Table 2. Electrical parameters of the RES power plant and control parameters of M-VSG.

Can a modified VSG controller ensure a stable angular frequency?

Consequently, a novel modified VSG (M-VSG) controller is proposed, which can ensure a stable angular frequency and synchronise with the grid without the phase-locked-loop. The inertia and damping properties of M-VSG are studied theoretically by eigenvalue analysis, and the design procedure of control parameters is presented.

Can a simple generator efficiently harvest mechanical energy?

Here we demonstrate a novel and simple generator with extremely low cost for efficiently harvesting mechanical energy that is typically present in the

form of vibrations and random displacements/deformation.

Who are the scientists based on flexible hybrid nanogenerator?

Hulin Zhang, Shangjie Zhang, Guang Yao, Zhenlong Huang, Yuhang Xie, Yuanjie Su, Weiqing Yang, Chunhua Zheng, and Yuan Lin . Simultaneously Harvesting Thermal and Mechanical Energies based on Flexible Hybrid Nanogenerator for Self-Powered Cathodic Protection.

Yufeng modified generator



Yufeng NIE , Professor (Full) , PhD , Northwestern Polytechnical

Yufeng Nie Syed Irfan Raza Naqvi A description of heat transportation in Maxwell nano-fluids mixed with self-motile thermophile microorganisms over a wedged wall is presented in this article.

Modeling and Simulation of Virtual Synchronous Generator for

generator can be approximated as a line with a slope of (2). mset p N PP k ?? - == - (2) Besides, (1) shows that the mechanical equation of the synchronous generator is related to



Yufeng Gao , Hohai University , 196 Publications , 4219 Citations

Yufeng Gao is an academic researcher from Hohai University. The author has contributed to research in topics: Slope stability analysis & Slope stability. The author has an hindex of 28, co ...

Enhancement of Nitrate-to- Ammonia on Amorphous CeOx- Modified ...

The electrochemical nitrate reduction reaction (NO₃RR) is an environment-friendly and promising alternative to the conventional Haber-Bosch ammonia synthesis process, which is a complex ...



Yufeng Yao's research works , University of the West of England

Yufeng Yao's 22 research works with 301 citations and 9,542 reads, including:
Corrigendum to "Experimental study of characteristics of bimetallic Pt-Fe nano-particle fuel cell electrocatalyst

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