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Sliding Mode Control of the Wound Rotor Synchronous Generator

By Muñoz Aguilar, Raúl Santiago

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | The Stand Alone Case | The control of the stand-alone wound rotor synchronous generator has been analyzed in this book. For this islanded configuration, the mechanical speed determines the frequency, and the rotor voltage is used to set the stator voltage amplitude. Due to the electrical time constant is so fast compared with the mechanical time constants, the mechanical speed was considered constant and externally regulated and the research was focused on the stator voltage amplitude regulation. Four different controllers based on sliding mode control techniques were designed in the dq reference frame. The obtained control laws regulate the stator voltage amplitude irrespectively of the load value. Furthermore, only voltage and rotor position measures (to compute the dq transformation), are required. The stability of the obtained equilibrium points was proved at least using small-signal analysis. Simulation and experimental validation of each controller containing several scenarios were carried out. The obtained results validate the designs and show the main advantages and disadvantages of each closed loop system. | Format: Paperback | Language/Sprache: english | 168 pp.



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