



Design And Simulation Of Wind-Solar Hybrid System With Mppt Control For Power Generation

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Abstract:

The solar and wind energies are cheap, affordable and environment friendly, and are considered as an alternative source of energy in the future. Solar-wind hybrid systems utilize two renewable energy sources simultaneously, which increases system efficiency and output power and reduces energy storage equipment for isolated systems from the grid. Solar-wind hybrid systems have become widespread in many parts of the world, due to the progression of this technology on the one hand, and, on the other hand, rising oil prices in the world. This thesis aims to review solar-wind hybrid systems and how to simulate, optimize and control with mppt. According to the presented methods, this technology now needs to be further studied in terms of output power control, efficiency, and how they combine with other conventional energy sources.

Biography:

Raham nazavar was born in urmia iran in 1992 is master of since electrical engineer working as an engineer on azar battery company and interested electronics and renewable energy fields.

Payam Alemi (S'14) was born in Tabriz, Iran in 1982. He received the B.Sc. degree from the University of Tabriz, Tabriz, Iran in 2005 and the M.S. degree from the science and research branch, Tehran Azad University in 2008. He is currently working toward his Ph.D. degree at Power Electronics and Machine Control Laboratory in Yeungnam University. His research interests include the control of multilevel power converters, power loss analysis for converters, LCL filter and machine drives.



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