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A Review on Power Quality Improvement by Artificial Neural Network Using Dstatcom in Industry

Rajan Patel, Bhimrao Dabhade, Tanmay Bharambe, Rajendra Eknath Potdar
capraj0707@gmail.com, bhimrao.dabhade@ggsf.edu.in,
Guru Gobind Singh Polytechnic, Nashik, Maharashtra, India

Abstract: *We know the concepts of reactive power & its problem's in power system of ship. There is some conventional method used to solve this problem but this method has constraints, different type of FACTS controller & various controls technique are also used. To over-come this problem a new adaptive control technique based on (Artificial Immune System) AIS for a DSTATCOM in an Industry power system is introduce in this paper. DSTATCOM is a shunt compensator which improves the power quality during pulse load launching. An control technique of DSTATCOM plays a most important role. This paper present control strategy was made more advance by replacing the PI controller with ANN (Artificial Neural Networks) so that the response time of the system become faster then that of PI controller.*

Keywords: DSTATCOM, Artificial Neural Network, VSC

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