IJDACR ISSN: 2319-4863



International Journal Of Digital Application & Contemporary Research

International Journal of Digital Application & Contemporary research Website: www.ijdacr.com (Volume 2, Issue 10, May 2014)

## **Digital Differential Protection of Power Transformer**

Gitanjali Kashyap
M. Tech. Scholar,
Dr. C. V. Raman Institute of Science and technology, Chhattisgarh (India)
alisha88.ele@gmail.com

Dharmendra Kumar Singh HOD. (Electrical Department) Dr. C. V. Raman Institute of Science and Technology, Chhattisgarh (India) dmsingh2001@rediffmail.com

Abstract — This paper presents design a Clark transformation based technique for protection of transformer. It improves and enhances the sensitivity of the operation of the digital differential relay that protects Power Transformers by discriminating between inrush current and fault current. The proposed method has been simulated with MATLAB / SIMULINK with different test of operations.

Keywords – differential protection, Clarke transforms.