

**International Energy Journal, Volume 10, Issue 1, March 2009**[HOME](#) | [ABOUT](#) | [LOG IN](#) | [REGISTER](#) | [SEARCH](#) | [CURRENT](#) | [ARCHIVES](#)[Home](#) > [Volume 10, Issue 1, March 2009](#) > [Sulaiman](#)

## Tracing Reactive Power Flow and Loss in Electric Power Systems

*Mohd Herwan Sulaiman, Mohd Wazir Mustafa, Omar Aliman, Ismail Daut, Surya Hardi Amrin, Mohamad Suhaizal Abu Hassan*

### Abstract

*This paper suggests a systematic method to trace the reactive power flow and loss named as Proportional Tree Method (PTM). From the power flow solution, the test system is modeled conceptually like a tree, where the reactive power flow tracing is started from a particular generator to a particular line or load through the routes that connect between them. It is also possible to pinpoint the loss at each transmission line to which generator. The veracity and simplicity of the method is demonstrated by numerical examples.*

Full Text: Subscribers Only