

Thesis Title : THE MEASUREMENT OF 400 KV STEEP-FRONT
IMPULSE VOLTAGE

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ABSTRACT

This thesis investigates a 400 kV steep - rise time impulse measurement system. The researcher has designed and built a resistive voltage divider. The steep - rise time impulse is obtained by employing a pressurized gas gap to chop the front rise time of the output signal from a standard impulse (1/50 μ s).

The voltage divider when connect with the generator and the pressurized gas gap can measure voltage amplitude of 400 kV and rise time of 150 ns.