Patent Overview

Integrators for Current Sensors – Patent # 11,486,905

Key Features

• Related to the field of high bandwidth current measurements, particularly integrators for Rogowski coil current sensors.
• The invention provides solutions to improve the performance of integrators for current sensors by reducing drift while maintaining bandwidth.
• Field-Effect Transistors (FET) are used to minimize drift while allowing for a very large feedback resistor.
• The invention employs a method of modulating the integrator feedback path to adjust the gain on the output.

Technical Information

• The integrator is a practical operational amplifier with frequency-dependent gain control and automatic reset, allowing feedback to drive the gate voltage of the FET via a frequency discriminator.