

**ABSTRACT OF THE DISCLOSURE**

A system that incorporates the subject disclosure may include, for example, a circuit for determining a magnitude difference between a first signal supplied to an antenna and a second signal radiated by the antenna, determining a phase difference between the first signal supplied to the antenna and the second signal radiated by the antenna, detecting an offset in an operating frequency of the antenna based on the magnitude difference and the phase difference, and adjusting the operating frequency of the antenna to mitigate the offset in the operating frequency of the antenna. Other embodiments are disclosed.