

# Abstracts

## Observation of Chaos in a Microwave Limiter Circuit

---

C.M. Glenn and S. Hayes. "Observation of Chaos in a Microwave Limiter Circuit." 1994 *Microwave and Guided Wave Letters* 4.12 (Dec. 1994 [MGWL]): 417-419.

Chaotic behavior has been observed in a microwave limiter circuit that consists of a shunt p-i-n diode cascaded with a 0.68-dB/MHz rolloff bandpass filter. The chaos manifests itself as a broad-band power spectral density of the output signal. The chaos appears and disappears as the incident power to the limiter circuit is increased, suggesting bifurcations and periodic windows in the chaotic region. Data are included that illustrate classic characteristics of chaos such as period doubling and broad-band spectra.

[Return to main document.](#)