

# Abstracts

## A Varactor-Tuned Patch Oscillator for Active Arrays

---

*P. Liao and R.A. York. "A Varactor-Tuned Patch Oscillator for Active Arrays." 1994 Microwave and Guided Wave Letters 4.10 (Oct. 1994 [MGWL]): 335-337.*

The design and construction of a relatively wideband quasi-optical voltage-controlled oscillator (VCO) is described. This VCO uses a varactor-tuned microstrip patch antenna and may be used as an element in quasi-optical power combining oscillator arrays. Measurements of this VCO indicate that over 1.3 GHz of tuning was achieved, with less than  $\pm 1.5$  dB of amplitude variation over that range.

[Return to main document.](#)