

Abstracts

Design of Oscillators for Optically Fed MMW Phased Array

D.J. Sturzebecher, X. Zhou, X. Zhang and A.S. Daryoush. "Design of Oscillators for Optically Fed MMW Phased Array." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 325-328.

A new approach for design of the optically synchronized millimeter wave local oscillators is introduced based on subharmonically injection locked phase--lock loop technique. The experimental results support the desired goal of frequency and phase coherency of the millimeter wave oscillators, while maintaining the low FM noise degradation and large subharmonic locking range.

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