Abstracts

Session 11 Introduction (1984 [MWSYM])

F.N. Sechi. "Session 11 Introduction (1984 [MWSYM])." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 265-265.

This session addresses the topic of improving the noise and the frequency stability of FET oscillators. These are important characteristics directly affecting the performance of devices in practical systems. Over the last decade numerous studies have been reported on the design and the performance of FET oscillators, about their feedback implementation, the various circuit topologies, and the techniques for frequency stabilization, often employing dielectric resonators. The best design techniques also included non-linear modelling. Thus, the general design method for achieving oscillation at the required frequency and with required level of output power and efficiency is well established. Also, the reported performances have been excellent, with high levels of efficiency and operating frequencies well into the millimeter wave range. As a result FET oscillators have become attractive for application in many microwave systems, specifically in those having a limited amount of DC power available, or already built with FET technology.

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