Seminar

**Ring oscillator - more than a test device**

Ring oscillators, that is a odd number of inverters in a loop, are used in many different application scenarios. One important use is as a test device for assessing silicon performance and manufacturability. However, regarding ring oscillators as test-only underestimates their versatility.

In this seminar topic, either a structured overview of the possible use of ring oscillators, their proper construction and usage can be given, or a detailed analysis of one use-case for ring-oscillators, such as TRNGs, temperature sensors, clock-generators or an exceptional case such as the pneumatic ring oscillator [1] or the printed ring oscillator [2]


**Contact**

Request Topic

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