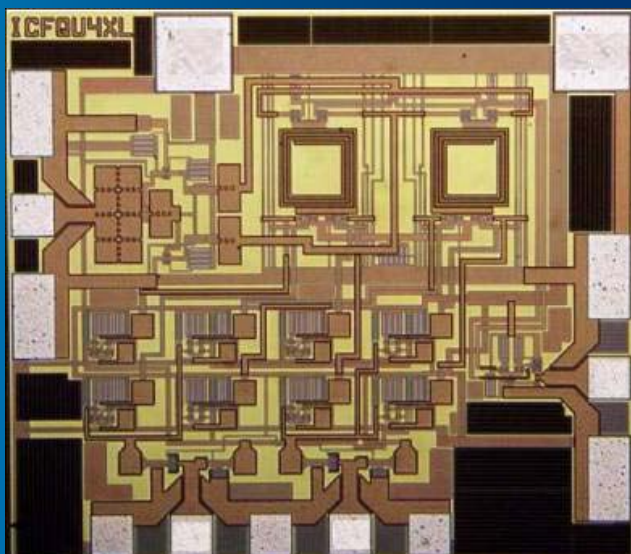


Thursday, November 15

6 p.m.

Syracuse University
Goldstein Student Center
Room 201

Refreshments will be served.



Dividing less and conquering more in the design of mixer RFIC's

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About the presentation

The design paradigm for microwave transceivers is to divide and conquer: the engineer first designs the individual components and then interconnects them. This paradigm has been enormously successful. Yet, by merging blocks in the transceiver and designing them as a single unit, new and interesting concepts emerge. Some of the benefits include reduced chip area, reduced power consumption, or improved performance metrics. For example, if a mixer is combined with the local oscillator, the result is a new circuit known as a self-oscillating mixer (SOM). This talk will focus on innovative ways to merge the mixer with other components that typically surround it in a transceiver. Three CMOS mixer RFIC designs will be described together with measured results.



For more information, visit our website at:
<http://www.ewh.ieee.org/r1/syracuse/mtt-ap/mttap.htm>
or contact Michael Enders at: menders@ieee.org

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