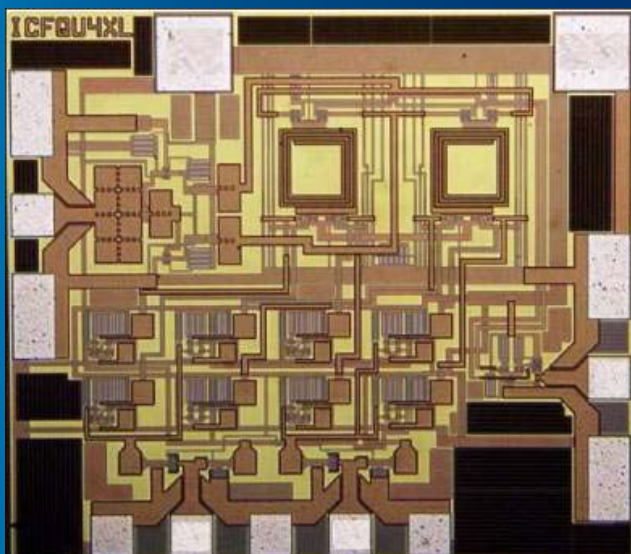


Thursday, November 15

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

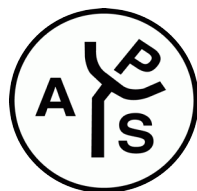
Dr. Carlos Saavedra

Associate Professor

Department of Electrical and Computer Engineering
Queen's University, Kingston, Ontario, Canada

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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