



SCOTTISH CHAPTER

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IEEE Solid State Circuits Society – Scottish Chapter Free Technical Event

Thursday 17th of November
6pm, MWB Edinburgh, 9-10 St. Andrew Square

Talk Info

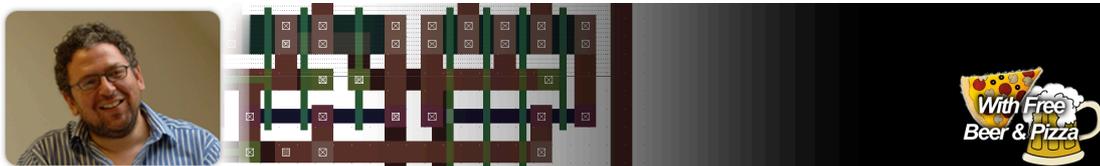
Nanometer Analog Layout

A critical aspect to achieving the theoretical performance of an analog circuit has for a long time been its layout. Perhaps more importantly, when the layout fails to match the design, the project can fail in schedule, cost, or performance. There are many layout-induced effects in nanometer CMOS that alter the transistor characteristics, and this means that matching the layout to the design is becoming more difficult and critical. This tutorial provides an overview of those effects, and provides some strategies and approaches to combat them. Even if you don't do the layout yourself, every designer should be able to guide the process through to success.

Presenter

JED Hurwitz

He graduated from Nottingham University in 1987. He joined GEC Plessey, then Matra MHS, France, where he worked on the world's first commercial video telephone for ATT. In 1995, he joined VVL in Edinburgh (which IPO's as Vision Group and was later acquired by ST Microelectronics) as Principal Technologist and was the technical driving force behind the company that successfully became one of the pioneers of CMOS imaging. He became recognised as one of the world's experts in all aspects of the architecture, design, development, and manufacturability of CMOS image sensor systems (photons to bytes) and their optimization for the mobile market. In 2005 he co-founded Gigle Semiconductor, a Fabless start-up company in home networking which delivered a gigabit solutions over powerline and introduced hybrid wired/wireless networking. Gigle Networks successfully introduced solutions on nanometer technologies and was eventually acquired by Broadcom Corp at the end of 2010. He is an active participant of the international technical committees of the ISSCC and ESSCIRC, and is currently providing consultancy to local start-ups and SME's.



Access Info

The MWB sits in the corner of St. Andrew Square in Edinburgh. The main glass door maybe shut at 6pm. If a member of the Chapter is not present at the door to let you in, please contact the event organiser on 0781-519-7802 to gain access to the building.