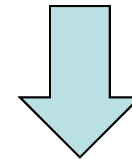
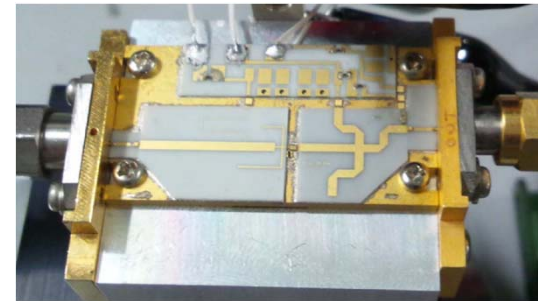
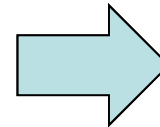
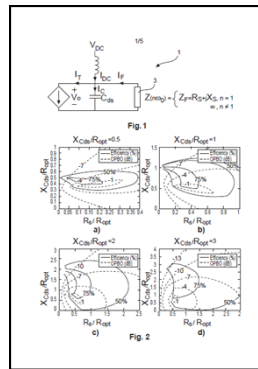
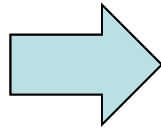


From novel theory to patent application, demonstrator, and journal article

Theoretical studies of the class-J amplifier has resulted in a novel dynamic load modulation technique used to enhance the overall efficiency of power amplifiers. The technique is unique since it in a straightforward way can be used to design power amplifiers with wideband performance, high efficiency, and high power. The idea has therefore first resulted in a patent application*, filed by Ericsson AB with PhD students from Chalmers as inventors. Then a prototype circuit was fabricated and verified which resulted in a scientific journal article in IEEE Transactions on Microwave Theory and Techniques**.



IDEA @



Patent application



Journal Article



*C.M. Andersson, D. Gustafsson; *Patent application*, P36395 WOI (2012)

**C. M. Andersson et al; *IEEE Transactions on Microwave Theory and Techniques* 60(12) 3778-3786 (2012).