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Increasing the saturated output RF power for RF amplifiers using a passive technique

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Increasing the saturated output RF power for semiconductor RF amplifiers using a passive technique is an approach that allows using cheap, small size and low power semiconductor RF amplifiers in the circuitry instead of a single high power traveling wave tube TWT. Also it will help us to overcome the heat problems since this method depends on passive components. The measurement results verified that the approach of the technique is indeed functional, and the efficiency was enhanced while increasing the output RF power. A comparison between the saturated RF output power of the (HMC453ST89E) before and after using the passive technique where it shows how the RF power level will increase when using the passive techniques. A clear improvement in the system efficiency, reliability and availability over active very high power amplifiers like TWT. This technique could be applied in transmitters, wireless applications, radars and microwave systems.

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Lecture: Wearable tech paves our way to artificial intelligence

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Wearable tech is the future of our interactions with computers and the surroundings, whereas artificial intelligence is still far away from us. Not to say it's impossible to get, because nothing is impossible. At this time in human history, we are able to practice real AI in our lives in a way that was never possible and that's through wearable technology. Using human computer interaction and machine learning techniques, we can lead computers to control our lives and bring the value of computer analysis into our daily lives. Artificial Intelligence is not there yet, but with wearable tech, it is possible to analyze tons of data and KPI's for marketing intelligence. The outline of the presentation involves 1) the biggest trends and most advanced tech improvements in wearable tech, 2) how you can create music or draw something just by thinking about them using wearable tech, 3) how wearable's can replace the senses and lacking of the human body and can help people relieve stress, focus and accomplish more, 4) how wearable's helped millions of people with their health and fitness, so they can help with finance, productivity, lifestyle and much more. The benefits involve learning about the biggest achievements and developments in the world of tech; finding out about opportunities that wearable's can offer both in personal and professional level; and how people can spend less time interacting with technology and enjoy more of their moments.

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