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**HFE**  
LATE APRIL



### Late April: Enabling 5G with RF & Microwave Components

The adaptation of fifth-generation (5G) millimeter wave (mmWave) solutions that range as high as 39 GHz for communications systems across multiple industries such as defense, aerospace, industrial, and IoT promises a revolution in low-latency data transmission and sharing plus huge boosts in overall network capacity. Leveraging 5G, technology designers in these industries will rely on RF & microwave solutions that can quickly meet the needs of commercial applications as well as stringent military requirements for adapting 5G tech for the battlefield. This webcast of industry experts covers 5G technology benefits and how RF and microwave components such as antennae, power amplifiers, interconnects, actives, passives, and test solutions – as well as signal processors and FPGAs – enable deployment of 5G systems.

**HFE**  
LATE MAY



### Late May: GaN: Leveraging Its Advantages

Gallium nitride (GaN) components have been the hottest RF and microwave solutions in multiple industries — from defense and automotive to healthcare and IT. The GaN sector is still getting educated on all the possibilities that GaN brings to the design table from a performance standpoint, especially in areas like radar for automobiles and military applications as well as communications systems. This webcast of industry experts will cover the technical, performance, and design considerations when leveraging GaN components and how these parts compare with solutions based on silicon carbide (SiC) and laterally-diffused metal-oxide semiconductor (LDMOS).

**HFE**  
LATE JULY



### Late July: Enhancing Signal Integrity Through EDA Tools

Managing signal integrity in high-speed designs is challenging; critical to the process is doing so in an efficient way. Properly modeling and simulating early in the design cycle through EDA software can help mitigate these challenges. This webcast of expert speakers details how EDA tools enable higher quality workflow and more robust signals by creating a virtual prototype and simulating different signal-transmission scenarios before the design is complete.

**HFE**  
LATE AUGUST



### Late August: Meeting Complex Military Threats with RF & Microwave Technology

Adversarial electronic warfare (EW) threats have never been more complex, and the demand for increased radar capability for missile defense has never been more critical. Now often identified as part of Electromagnetic Spectrum Operations (EMSO), designers of these new radar and EW systems are relying heavily on RF and microwave technology to counter the EW threat and track every missile. This webcast of industry experts will discuss how RF solutions enable greater bandwidth, gaining access to higher levels of the spectrum, how gallium nitride (GaN) components enable power density and higher efficiencies in radar systems, designers' pressing need for higher-speed converters, and more.

**HFE**  
LATE SEPTEMBER



### Late September: Managing MMIC Power Amplifier Challenges

Whether it's a commercial base station, sophisticated communications system, or a high-end radar platform, power amplifiers play a critical role as they must enable not only high power outputs but high efficiencies. These capabilities have been enhanced by monolithic microwave integrated circuits (MMICs) — designed for power amplifiers — that leverage gallium nitride (GaN) technology rather than gallium arsenide (GaAs). GaN designs provide significant power output increases, but also come with thermal-management challenges, among others. This webcast of industry experts will cover those challenges, how they can be managed, and how modern power amplifiers benefit military and commercial applications.

**HFE**  
MID NOVEMBER



### Mid November: Enabling Efficient IoT Systems with RF & Microwave Solutions

Robust communications networks, including 5G and the latest generation of CPUs and GPUs are enabling the connections within the Internet of Things (IoT). Many of these solutions are based on the RF and microwave technologies that enable greater bandwidth and better efficiencies, for example through the adaption of gallium nitride (GaN) technology. This webcast of industry experts will examine how OEMs can leverage RF and microwave solutions to enhance their IoT systems and how these solutions will enable adoption of 5G millimeter wave (mmWave) solutions.

**HFE**  
**TOM PERKINS**



## **HFE Webcast Moderator: Tom Perkins**

Before joining HFE as Senior Technical Editor in 2011, Tom served as a Senior Principal Engineer at BAE Systems, where he managed the Microwave Module Design Group. His work involved advanced microwave packaging techniques including multi-layer organic and Low Temperature Co-Fired Ceramic (LTCC). At BAE he developed unique high power microwave amplifiers using solid state Gallium Nitride (GaN) transistors. He formerly led a design group responsible for microwave control devices and another on expendable decoys and radar altimeters. Tom has been awarded six patents including two related to the Rapid Prototyping of MMIC based circuits; an LTCC T/R Module utilizing BallGrid Array Technology; an X-Band Turnstile Antenna; and an X, Ku, and K Band Omni-Directional Antenna with Dielectric Loading. Tom is a Life Senior Member of the IEEE, and has served as MTTs Chair in both the Boston and New Hampshire Sections. He has also been active in the Association of Old Crows. A ham radio operator since age 14, his call is AC1J. He holds a BSEE degree from Monmouth University and has authored numerous technical papers and articles.