Dr. Timothy Hancock is a Principal Engineering Fellow at Raytheon and is focused on microelectronics initiatives and the transition of advanced technology. Prior to joining Raytheon, he was a program manager at the Defense Advanced Research Projects Agency (DARPA) within the Microsystems Technology Office (MTO) where his research interests included improving the dynamic range of RF hardware and increasing power efficiency in the face of increasing bandwidth requirements. Prior to joining DARPA, he was an assistant leader of the RF Technology Group at MIT Lincoln Laboratory where he led technology & program development in microsystem technology that spanned material growth, device development and integrated circuit & system design. As a staff member at MIT Lincoln Laboratory, he developed low-power wireless devices and MIMO communication systems, with his work focusing on integrated circuit design and wireless system design. Dr. Hancock earned a BS degree in electrical engineering from the Rose-Hulman Institute of Technology and MS and PhD degrees in electrical engineering from the University of Michigan and is a Senior Member of the IEEE.