Cutting-edge PWG and Applications from VHF to mmWaves Bands

Abstract:

This workshop will introduce modern PWG design covering the full application spectrum from VHF to millimeter wave frequencies. The advantages and disadvantages with respect to classical far-field solution such as Compact Antenna Test Ranges (CATR) will be discussed. Different applications of PWG based systems ranging from VHF, sub6GHz and millimeter wave OTA testing will be illustrating the approach.

Workshop outline:

(Presented by Lars Foged)

Introduction

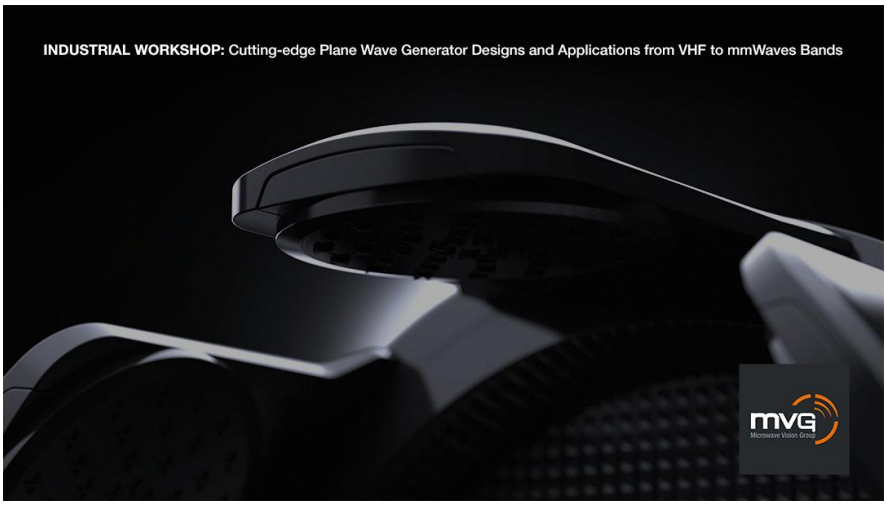
-> PWG design metrics and optimization methods

-> Applications examples at VHF frequencies (including EsA project)

-> Applications examples at sub6Ghz frequencies

-> Applications examples at mmWaves frequencies

Conclusion



Lars Jacob Foged is Scientific Director of the Microwave Vision Group. Since 2004, he was secretary and now vice-chair of the IEEE Antenna Standards Committee. He is course organizer and Board Member of the European School of Antennas (ESOA) since 2006. He was Vice-Chair of the EuCAP conference in 2011 and 2022. In 2016 and 2017, he led the Industry Initiatives Committee (IIC) of IEEE APS. He is Board Member, Fellow and Distinguished Achievement Award recipient of Antenna Measurement Techniques Association (AMTA).

He has authored or co-authored more than 300 journal and conference papers on antenna design and measurement topics and received the “Best Technical Paper Award” at the 2012 AMTA symposium and the “Best Measurement Paper Award” at the Eucap 2021 conference. He co-authored the IET book “Post-processing Techniques in Antenna Measurement” in 2019 and has made contributions to six books and standards and holds four patents.