

## Session: TU3C

# Frequency-Domain Modeling of Microwave Structures

*Chair*  
**A.C. Cangellaris**  
*University of Arizona*

*Co-Chair*  
**P. Russer**  
*Tech. University of Munich*

TU  
3C

As frequency-domain modeling of microwave structures matures, research emphasis is placed on the development of novel techniques to improve both the accuracy and computation efficiency of the various modeling methodologies. In addition to the more traditional mode-matching and integral equation techniques, finite methods such as FDFN and FEMs are enhancing their performance with the use of hybrid schemes that combine field discretization with modal representations to reduce computational complexity and/or improve solution accuracy. In addition new advances in grid truncation techniques, such as the perfectly matched layer approach help reduce significant numerical noise due to artificial reflections.

1:40 pm - 3:30 pm Tuesday, June 18, 1996  
Room 133

