

Principal Publications (Last 5 Years):

- (1) M.A. Morgan and R. C. Robertson, "Impulse Receiving Antenna Design and Measurement," Abstracts USNC/URSI Radio Science Meeting, Baltimore, July 1996
- (2) R.C. Robertson, R. Janaswamy and M.A. Morgan, "Ultra-Wideband Impulse Propagation," Abstracts, AMEREM, Albuquerque, May 1996
- (3) M.A. Morgan, "Enhanced EM Source Radiation Imaging," Abstracts, Progress in Electromagnetics Research Symposium, Cambridge, July 1997
- (4) M.A. Morgan and F.K. Schwering, "Mode Expansion Solution for Scattering by a Material Filled Rectangular Groove, Chapter 1 in *Electromagnetic Waves*, Volume 18, EMW Publishing, Cambridge, MA, 1998
- (5) M.A. Morgan, "Electromagnetic Modeling and Results," Abstracts, High-Power Microwave Conference, Albuquerque, May 1999
- (6) M.A. Morgan, "Finite Element Method Applied to Inhomogeneously Loaded Tapered Profile Monocone Antennas," Abstracts USNC/URSI Radio Science Meeting, Orlando, July 1999
- (7) M.A. Morgan and F.K. Schwering, "Scattering by a Planar Metal Surface with Randomized Rectangular Grooves," Abstracts USNC/URSI Radio Science Meeting, Orlando, July 1999
- (8) M.A. Morgan, "Electromagnetic Source Imaging Using Superluminal Cylindrical Modes," Abstracts USNC/URSI Radio Science Meeting, Orlando, July 1999
- (9) M.A. Morgan, "Near-Field Imaging Using Cylindrical Harmonic Back-Propagation," Abstracts, Progress in Electromagnetics Research Symposium, Cambridge, July 2000
- (10) M.A. Morgan and D.G. Steenman, "Null Spaces in Equivalent Current Field Generation," Abstracts, Progress in Electromagnetics Research Symposium, Cambridge, July 2000
- (11) M.A. Morgan, "Impulse Radiator Modeling and Experiments," Abstracts, EUROEM Symposium, Edinburgh, Scotland, May 2000.
- (12) R.S. Thompson, S.R. Meade and M.A. Morgan, "NEC Modeling of Transient Radiation and Structure Penetration Over Ground," Abstracts, Directed Energy Symposium, Albuquerque, November 2000
- (13) M. A. Morgan and D. G. Steenman, "Null Spaces for Near-Field Imaging," Abstracts USNC/URSI Radio Science Meeting, Boston, July 2001
- (14) M. A. Morgan, "Impulsive Field Computation and Measurement," Abstracts USNC/URSI Radio Science Meeting, Boston, July 2001
- (15) M. A. Morgan and F. K. Schwering, "Wideband RCS Enhancement Via Randomized Surface Grooves," Proceedings of the 10th European Electromagnetic Structures Conference, 10 page paper, October 2001
- (16) A. V. Kildishev, J. A. Nyenhuis and M. A. Morgan, "Multipole Imaging of an Elongated Magnetic Source by a Cylindrical Sensor Array," Proceedings of InterMag Europe 2002, May 2002
- (17) M. A. Morgan and A. V. Kildishev, "Optimal Sensor Placement for Magnetic Signature Prediction," Proceedings of InterMag Europe 2002, May 2002