

# The Ninth Most Referenced Transactions Paper of the EMC Society

*Daniel D. Hoolihan, EMC Society History Committee Chair*

## Introduction

With two more papers to re-publish, we are almost done with this series of articles on the “Most Referenced Transactions Papers of the EMC Society.” In this issue, we are pleased to present the ninth most-referenced paper in the 50 year history of the EMC Society. The publishing of these papers is a continuation of the 50th Anniversary Celebration of the EMC Society of the IEEE (1957–2007). The papers were originally published in the *IEEE Transactions on Electromagnetic Compatibility*.

In the eight previous newsletters, we published the first eight most-referenced papers, which are respectively:

- 1) “Transient Response of Multiconductor Transmission Lines Excited by a Nonuniform Electromagnetic Field;” EMC-22, No. 2, May – 1980, Page 119 by A. K. Agrawal, H. J. Price, and S. H. Gurbaxani.
- 2) “Absorbing Boundary Conditions for the Finite-Difference Approximation of the Time-Domain Electromagnetic Field Equations;” EMC-23, No. 4, November – 1981, Page 377–382 by Gerrit Mur.
- 3) “Generation of Standard Electromagnetic Fields Using TEM Transmission Cells;” EMC-16, No. 4, November – 1974, Pages 189 -195 by Myron (Mike) L. Crawford.
- 4) “Frequency Response of Multiconductor Transmission Lines Illuminated by an Electromagnetic Field,” EMC-18, No. 4, November – 1976, Pages 183–190 by Clayton R. Paul.
- 5) “Statistical Model for a Mode-Stirred Chamber,” EMC-33, No. 4, November – 1991, Pages 366–370 by Joseph G. Kostas and Bill Boverie.
- 6) “Correction of Maxwell’s Equations for Signals I,” EMC-28, No. 4, November – 1986, Pages 250–258 by Henning Harmuth.
- 7) “Aperture Excitation of Electrically Large, Lossy Cavities,” EMC-36, No. 3, August – 1994, Pages 169–178 by David A. Hill, Mark T. Ma, Arthur R. Ondrejka, Bill F. Riddle, Myron L. Crawford, and Robert T. Johnk.
- 8) “Plane Wave Integral Representation for Fields in Reverberation Chambers,” Volume 40, No. 3, August – 1998, Pages 209-217 by David A. Hill.

In this issue, we are publishing the ninth most-referenced EMC Society Transactions paper of the first fifty years of the EMC Society and it is, again, written by David A. Hill.

The title of the paper is “Electronic Mode Stirring for Reverberation Chambers” and it was first published in the *IEEE Transactions on Electromagnetic Compatibility* in Volume 36, No. 4 in November of 1994.

I hope you take the time to read and appreciate the significance of this historical technical article.