

ATEF Z. ELSHERBENI

IEEE Fellow (2007) and ACES Fellow (2008)

Developed Software Packages: (Total 17 Packages)

2023

- Rachel Lumnitzer and Atef Z. Elsherbeni, “Electromagnetic Visualization Tools for Effective Undergraduate Education,” International Applied Computational Electromagnetics Society (ACES) Symposium, Monterey, CA, 2023.
- Zahid Hassan and Atef Z. Elsherbeni, “Visualization of Electric and Magnetic Fields Inside Circular and Baffle Waveguides and Cavities,” International Applied Computational Electromagnetics Society (ACES) Symposium, Monterey, CA, 2023.

2006

- V. Demir, and A. Z. Elsherbeni, “[A Graphical User Interface for Calculation of Reflection and Transmission Coefficients of a Layered Medium](#),” IEEE Antennas and Propagation Magazine.
- V. Demir, M. H. Al Sharkawy, and A. Z. Elsherbeni, “A Graphical User Interface (GUI) for two-dimensional electromagnetic scattering problems,” IEEE SoutheastCon Conference, Memphis, TN, USA, March 31 – April 2, 2006.

2005

- Mohamed Al Sharkawy, Veysel Demir, and Atef Z. Elsherbeni, “Educational Software Package for Electromagnetic Scattering from Simple Two and Three Dimensional Canonical and Non-Canonical Objects,” IEEE/ACES International Conference on Wireless Communications and Applied Computational Electromagnetics, Honolulu, Hawaii, April 3 – 7, 2005.

2004

- V. Demir, A. Z. Elsherbeni, D. Worasawate, and E. Arvas, “[A graphical user interface \(GUI\) for plane wave scattering from a conducting, dielectric or a chiral sphere](#),” IEEE Antennas and Propagation Magazine, vol. 46, No. 5, pp. 94-99, October 2004.

2003

- Atef Z. Elsherbeni, Matthew J. Inman, “Antenna Design and Radiation Pattern Visualization” Journal of the Applied Computational Electromagnetics Society (ACES), vol. 18, no. 4, 2003.

2001

- Allen W. Glisson, and Atef Z. Elsherbeni, [2D-TE Finite Difference Time Domain Visualization](#); (version 1). The Applied Computational Electromagnetic Society Web Site, March 2001.

2000

- Allen W. Glisson, and Atef Z. Elsherbeni, [1D MATLAB Finite Difference Time Domain Code](#); (version 1). The Applied Computational Electromagnetic Society Web Site, March 2000.
- Allen W. Glisson, and Atef Z. Elsherbeni, [2D-TM Finite Difference Time Domain Visualization](#); (version 1). The Applied Computational Electromagnetic Society Web Site, March 2000.

1996

- Atef Z. Elsherbeni and C. D. Taylor, “Antenna Pattern Plotter,” version 1.3, published in the second edition of the Antenna Theory Analysis and Design Book by C. A. Balanis, 1996.

1995

- Atef Z. Elsherbeni and C. D. Taylor, Jr., WGC: [Electromagnetic Fields inside Waveguides and Cavities](#); (version 2.1). Software Book II, Center on Computer Applications for Electromagnetic Education (CAEME), Ch. 15, 1995.
- Atef Z. Elsherbeni and C. D. Taylor, Jr., Interactive Visualization of Two- and Three-Dimensional Antenna Patterns. Software, Book II, Center on Computer Applications for Electromagnetic Education (CAEME), Sec. 4, Ch.8, 1995.
- Atef Z. Elsherbeni and Patrick Ginn, [Arrays: Interactive Analysis of Antenna Arrays](#). Version 2 published in the Software, Book II, Center on Computer Applications for Electromagnetics Education



(CAEME), Ch. 7, 1995.

1993

- Atef Z. Elsherbeni and C.D. Taylor, Jr., CCM: Efficient Algorithm for The Scattering from Composite Two-Dimensional Scatterers Using Personal Computers: Version 1, published in the IEEE Antennas and Propagation Magazine, EM Programmer's Notebook, vol. 35, no. 5, pp. 68-70, October 1993.

1992

- Atef Z. Elsherbeni and Patrick Ginn, Arrays: [Interactive Analysis of Antenna Arrays](#). Version 1 published in the Computer Applications in Engineering Education Journal (CAE), vol. 1, no. 1, pp. 109-117, 1992.

1991

- Atef Z. Elsherbeni, D. Kajfez and J. Hawes, WGVMAP: Mapping of Vector Fields inside Waveguides. Version 1, published in the Software, Book I, Center on Computer Applications for Electromagnetics Education (CAEME), Ch. 10, 1991.