COLORADO**SCHOOLOFMINES**

ATEF Z. ELSHERBENI
IEEE Fellow (2007) and ACES Fellow (2008)

Books: (Total 16)

2023

- Qiang Ren, Su Yan, Atef Z. Elsherbeni, Editors "Advances in Time-Domain Computational Electromagnetic Methods," IEEE Press Series on Electromagnetic Wave Theory, John Wiley & Sons, IEEE Press, 2023.

2021

- Bassem Mahafza, Scott Winton, and Atef Elsherbeni, Handbook of Radar Signal Analysis, CRC Press, 2021.

2018

- Payam Nayeri, Fan Yang, and Atef Z. Elsherbeni, Reflectarray Antennas, Theory, Design, and Applications, Institute of Electrical and Electronics Engineers, John Wiley & Sons, IEEE-Wiley & Sons, 2018.

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- Ahmed Hassan, Fan Yang, Atef Z. Elsherbeni, and Payam Nayeri, Analysis and Design of Transmitarray Antennas, Morgan and Claypool, 2017.
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- Wenhua Yu, Wenxing Li, Atef Elsherbeni, and Yahya Rahmat-Samii (Editors), Advanced Computational Electromagnetics Methods and Applications, Artech House, March 2015.

2014

- Atef Elsherbeni, Payam Nayeri, and C.J. Reddy, Antenna Analysis and Design Using FEKO Electromagnetic Simulation Software, ACES Series on Computational Electromagnetics and Engineering, SciTech Publishing Inc. an Imprint of the IET, Edison, NJ, 2014.

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- Erdogan Alkan, Veysel Demir, Atef Elsherbeni, and Ercument Arvas, Double-Grid Finite-Difference Frequency-Domain (DG-FDFD) Method for Scattering from Chiral Objects, Morgan and Claypool, 2013.

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- Mesut Gokten, Atef Elsherbeni, and Ercument Arvas, Multiresolution Frequency Domain Technique for Electromagnetics, Morgan and Claypool, 2012.

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- Atef Elsherbeni and Veysel Demir, The Finite Difference Time Domain Method for Electromagnetics with MATLAB Simulations, SciTech Publishing Inc., Raleigh, NC, 2009.

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- Wei-Chung Weng, Fan Yang, and Atef Z. Elsherbeni, Electromagnetics and Antenna Optimization Using Taguchi's Method, Morgan and Claypool, 2007.

2006

- A. Z. Elsherbeni and Matthew J. Inman, Antenna Design and Visualization using MATLAB, SciTech Publishing Inc., January 2006.

2003

- B. R. Mahafza and A. Z. Elsherbeni, MATLAB Simulation for Radar Systems Design, CRC Press, December 2003.

Book Chapters: (Total 35)

2023

- Joshua M. Kast;Atef Z. Elsherbeni, Integration of Nonlinear Circuit Elements into FDTD Method Formulation, Chapter 11 in Advances in Time-Domain Computational Electromagnetic Methods, John Wiley, IEEE Press, 2023.
- Mohamed H. Bakr;Shirook Ali;Atef Z. Elsherbeni, Machine Learning Application for Modeling and Design Optimization of High Frequency Structures, Chapter 11 in Advances in Time-Domain Computational Electromagnetic Methods, John Wiley, IEEE Press, 2023.
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- Peter Vouras, Damla Guven, Jack Chuang, Camillo Gentile, Kate A. Remley, Benjamin Jamroz, Dylan F. Williams, Jeanne Quimby, Rodney Leonhardt, Robert D. Horansky, Maria Becker, Alec Weiss, Robert D. Jones, Joshua Kast, Atef Elsherbeni, Paritosh Manurkar, Chapter 11: Over-the-air testing with synthetic-aperture techniques, in Metrology for 5G and emerging wireless technologies, edited by Tian Hong Loh, IET Digital Library, 2021.

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- M. Hadi, A. Elsherbeni, Ravi Bollimuntha and Melinda Piket-May, "Chapter 7: FDTD in Cartesian and Spherical Grids", in Computational Photonic Sensors, by Hameed and Obayya , Springer, UK, 2018.

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- B. H. Henin, A. Z. Elsherbeni, M. H. Al Sharkawy, and F. Yang "Line Source Excitation of an Array of Circular Metamaterial Cylinders: Boundary Value Solution and Applications" in Metamaterials and Plasmonics: Fundamentals, Modeling, Applications. Editors: S. Zouhdi, A. Sihvola, and A. P. Vinogradov. NATO Science Series, Springer, 2009.

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- M. El-Shenawee, A. Z. Elsherbeni, "Analysis of Signal Distortion on Microstrip Lines with an Overlay and a Notch". Electromagnetic Wave Monograph Series, Progress in Electromagnetic Research (PIER 17), Chief Editor: J. A. Kong, vol. 17, Ch., pp. 73-89, 1997.

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