

**CURRICULUM VITAE
OF
STAVROS V. GEORGAKOPOULOS
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING**

EDUCATION

<u>Degree</u>	<u>Institution</u>	<u>Field</u>	<u>Dates</u>
PhD	Arizona State University	Electrical Engineering	2001
M.S.	Arizona State University	Electrical Engineering	1998
Diploma in Eng. (5-year degree)	University of Patras, Greece	Electrical & Comp. Eng.	1996

FULL-TIME ACADEMIC EXPERIENCE

<u>Institution</u>	<u>Rank</u>	<u>Field</u>	<u>Dates</u>
N/A			

PART-TIME ACADEMIC EXPERIENCE

<u>Institution</u>	<u>Rank</u>	<u>Field</u>	<u>Dates</u>
N/A			

NON-ACADEMIC EXPERIENCE

<u>Place of Employment</u>	<u>Title</u>	<u>Dates</u>
SV Microwave, Inc.	Principal Engineer	1/02-7/07

EMPLOYMENT RECORD AT FIU

<u>Rank</u>	<u>Dates</u>
Professor	8/18-present
Associate Professor	8/14-8/18
Assistant Professor	7/07-8/14

PUBLICATIONS IN DISCIPLINE

Books

N/A

Papers in Professional Journals

Articles

1. **S. V. Geogakopoulos**, C. A. Balanis and C. R. Birtcher, "Coupling between transmission line antennas: analytic solution, FDTD, and measurements," in *IEEE Transactions on Antennas and Propagation*, vol. 47, no. 6, pp. 978-985, June 1999, doi: [10.1109/8.777120](https://doi.org/10.1109/8.777120).

2. **S. V. Georgakopoulos**, C. A. Balanis and C. R. Birtcher, "Cosite interference between wire antennas on helicopter structures and rotor modulation effects: FDTD versus measurements," in *IEEE Transactions on Electromagnetic Compatibility*, vol. 41, no. 3, pp. 221-233, Aug. 1999, doi: [10.1109/15.784157](https://doi.org/10.1109/15.784157).
3. C. A. Balanis, A. C. Polycarpou, and **S. V. Georgakopoulos**, "Computational Electromagnetic Methods for Interconnects and Small Structures," *Superlattices and Microstructures*, vol. 27, no. 5/6, pp. 539-543, 2000, [10.1006/spmi.2000.0865](https://doi.org/10.1006/spmi.2000.0865).
4. **S. V. Georgakopoulos**, C. R. Birtcher and C. A. Balanis, "HIRF penetration through apertures: FDTD versus measurements," in *IEEE Transactions on Electromagnetic Compatibility*, vol. 43, no. 3, pp. 282-294, Aug. 2001, doi: [10.1109/15.942601](https://doi.org/10.1109/15.942601).
5. **S. V. Georgakopoulos**, C. R. Birtcher and C. A. Balanis, "Coupling modeling and reduction techniques of cavity-backed slot antennas: FDTD versus measurements," in *IEEE Transactions on Electromagnetic Compatibility*, vol. 43, no. 3, pp. 261-272, Aug. 2001, doi: [10.1109/15.942599](https://doi.org/10.1109/15.942599).
6. **S. V. Georgakopoulos**, R. A. Renaut, C. A. Balanis and C. R. Birtcher, "A hybrid fourth-order FDTD utilizing a second-order FDTD subgrid," in *IEEE Microwave and Wireless Components Letters*, vol. 11, no. 11, pp. 462-464, Nov. 2001, doi: [10.1109/7260.966042](https://doi.org/10.1109/7260.966042).
7. **S. V. Georgakopoulos**, C. R. Birtcher, C. A. Balanis and R. A. Renaut, "Higher-order finite-difference schemes for electromagnetic radiation, scattering, and penetration .1. Theory," in *IEEE Antennas and Propagation Magazine*, vol. 44, no. 1, pp. 134-142, Feb. 2002, doi: [10.1109/74.997945](https://doi.org/10.1109/74.997945).
8. **S. V. Georgakopoulos**, C. R. Birtcher, C. A. Balanis and R. A. Renaut, "Higher-order finite-difference schemes for electromagnetic radiation, scattering, and penetration .2. Applications," in *IEEE Antennas and Propagation Magazine*, vol. 44, no. 2, pp. 92-101, April 2002, doi: [10.1109/MAP.2002.1003639](https://doi.org/10.1109/MAP.2002.1003639).
9. **S. V. Georgakopoulos**, C. R. Birtcher, C. A. Balanis, R. A. Renaut and A. H. Panaretos, "HIRF penetration and PED coupling analysis for fuselage models using a hybrid subgrid FDTD(2,2)/FDTD(2,4) method," *IEEE Antennas and Propagation Society International Symposium (IEEE Cat. No.02CH37313)*, San Antonio, TX, USA, 2002, pp. 690-693 vol.2, doi: [10.1109/APS.2002.1016740](https://doi.org/10.1109/APS.2002.1016740).
10. S. Ogurtsov and **S. V. Georgakopoulos**, "FDTD Schemes With Minimal Numerical Dispersion," in *IEEE Transactions on Advanced Packaging*, vol. 32, no. 1, pp. 199-204, Feb. 2009, doi: [10.1109/TADVP.2008.2008100](https://doi.org/10.1109/TADVP.2008.2008100).
11. S. Jiang and **S. V. Georgakopoulos**, "Electromagnetic Wave Propagation into Fresh Water," *Journal of Electromagnetic Analysis and Applications*, vol. 3, no. 7, pp. 261-266, Jul. 2011. doi: [10.4236/jemaa.2011.37042](https://doi.org/10.4236/jemaa.2011.37042). (4th most downloaded JEMAA paper as of 8/21/17–13,140 Downloads and 26,969 Views)
12. S. Jiang and **S. V. Georgakopoulos**, "Optimum Wireless Powering of Sensors Embedded in Concrete," in *IEEE Transactions on Antennas and Propagation*, vol. 60, no. 2, pp. 1106-1113, Feb. 2012, doi: [10.1109/TAP.2011.2173147](https://doi.org/10.1109/TAP.2011.2173147).
13. Y. Qu and **S. V. Georgakopoulos**, "An Average Distance Based Self-relocation and Self-Healing Algorithm for Mobile Sensor Networks," *Journal of Wireless Sensor Networks*, vol. 4, no. 11, pp. 257-263, Dec. 6, 2012. doi: [10.4236/wsn.2012.411037](https://doi.org/10.4236/wsn.2012.411037).

14. O. Jonah, **S. V. Georgakopoulos** and M. M. Tentzeris, "Optimal Design Parameters for Wireless Power Transfer by Resonance Magnetic," in *IEEE Antennas and Wireless Propagation Letters*, vol. 11, pp. 1390-1393, 2012, doi: [10.1109/LAWP.2012.2228459](https://doi.org/10.1109/LAWP.2012.2228459).
15. O. Jonah and **S. V. Georgakopoulos**, "Wireless Power Transfer in Concrete via Strongly Coupled Magnetic Resonance," in *IEEE Transactions on Antennas and Propagation*, vol. 61, no. 3, pp. 1378-1384, March 2013, doi: [10.1109/TAP.2012.2227924](https://doi.org/10.1109/TAP.2012.2227924).
16. O. Jonah, A. Merwaday, **S. V. Georgakopoulos**, and M. M. Tentzeris, "Spiral Resonators for Optimally Efficient Strongly Coupled Magnetic Resonant Systems," *Wireless Power Transfer Journal*, Cambridge Press, Mar. 2014. doi: 10.1017/wpt.2014.3
17. X. Liu, S. Yao, B. S. Cook, M. M. Tentzeris and **S. V. Georgakopoulos**, "An Origami Reconfigurable Axial-Mode Bifilar Helical Antenna," in *IEEE Transactions on Antennas and Propagation*, vol. 63, no. 12, pp. 5897-5903, Dec. 2015, doi: [10.1109/TAP.2015.2481922](https://doi.org/10.1109/TAP.2015.2481922).
18. J. S. Gibson, X. Liu, and **S. V. Georgakopoulos**, J. J. Wie, T. H. Ware and T. J. White, "Reconfigurable Antennas Based on Self-Morphing Liquid Crystalline Elastomers," in *IEEE Access*, vol. 4, pp. 2340-2348, 2016, 2016, doi: [10.1109/ACCESS.2016.2565199](https://doi.org/10.1109/ACCESS.2016.2565199).
19. H. Hu and **S. Georgakopoulos**, "Multiband and Broadband Wireless Power Transfer Systems Using the Conformal Strongly Coupled Magnetic Resonance Method," in *IEEE Transactions on Industrial Electronics*, vol. 64, no. 5, pp. 3595-3607, May 2017, doi: [10.1109/TIE.2016.2569459](https://doi.org/10.1109/TIE.2016.2569459).
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21. S. Yao, X. Liu and **S. V. Georgakopoulos**, "Morphing Origami Conical Spiral Antenna Based on the Nojima Wrap," in *IEEE Transactions on Antennas and Propagation*, vol. 65, no. 5, pp. 2222-2232, May 2017, doi: [10.1109/TAP.2017.2677920](https://doi.org/10.1109/TAP.2017.2677920).
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23. S. Yao and **S. V. Georgakopoulos**, "Origami Segmented Helical Antenna With Switchable Sense of Polarization," in *IEEE Access*, vol. 6, pp. 4528-4536, 2018, doi: [10.1109/ACCESS.2017.2787724](https://doi.org/10.1109/ACCESS.2017.2787724).
24. D. Liu and **S. V. Georgakopoulos**, "Cylindrical Misalignment Insensitive Wireless Power Transfer Systems," in *IEEE Transactions on Power Electronics*, vol. 33, no. 11, pp. 9331-9343, Nov. 2018, doi: [10.1109/TPEL.2018.2791350](https://doi.org/10.1109/TPEL.2018.2791350).

25. X. Liu, C. L. Zekios and **S. V. Georgakopoulos**, "Analysis of a Packable and Tunable Origami Multi-Radii Helical Antenna," in *IEEE Access*, vol. 7, pp. 13003-13014, 2019, doi: [10.1109/ACCESS.2019.2892711](https://doi.org/10.1109/ACCESS.2019.2892711).
26. K. Bao, C. L. Zekios and **S. V. Georgakopoulos**, "A Wearable WPT System on Flexible Substrates," in *IEEE Antennas and Wireless Propagation Letters*, vol. 18, no. 5, pp. 931-935, May 2019, doi: [10.1109/LAWP.2019.2906069](https://doi.org/10.1109/LAWP.2019.2906069).
27. Hyun Kim, John Gibson, Jimin Maeng, Mohand O. Saed, Krystine Pimentel, Rashed T. Rihani, Joseph J. Pancrazio, **Stavros V. Georgakopoulos**, and Taylor H. Ware, "Responsive, 3D Electronics Enabled by Liquid Crystal Elastomer Substrates," in *ACS Applied Materials & Interfaces* 2019 11 (21), 19506-19513 DOI: [10.1021/acsami.9b04189](https://doi.org/10.1021/acsami.9b04189).
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29. K. Bao, C. L. Zekios and **S. V. Georgakopoulos**, "Miniaturization of SCMR Systems Using Multilayer Resonators," in *IEEE Access*, vol. 7, pp. 143445-143453, 2019, doi: [10.1109/ACCESS.2019.2945319](https://doi.org/10.1109/ACCESS.2019.2945319).
30. M. Hamza, C. L. Zekios and **S. V. Georgakopoulos**, "A Thick Origami Reconfigurable and Packable Patch Array With Enhanced Beam Steering," in *IEEE Transactions on Antennas and Propagation*, vol. 68, no. 5, pp. 3653-3663, May 2020, doi: [10.1109/TAP.2020.2963922](https://doi.org/10.1109/TAP.2020.2963922).
31. J. Barreto, A. -S Kaddour and **S. V. Georgakopoulos**, "Conformal Strongly Coupled Magnetic Resonance Systems With Extended Range," in *IEEE Open Journal of Antennas and Propagation*, vol. 1, pp. 264-271, 2020, doi: [10.1109/OJAP.2020.2999447](https://doi.org/10.1109/OJAP.2020.2999447).
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33. Y. Shafiq, J. Henricks, C. P. Ambulo, T. H. Ware and **S. V. Georgakopoulos**, "A Battery-Free Temperature Sensor With Liquid Crystal Elastomer Switching Between RFID Chips," in *IEEE Access*, vol. 8, pp. 87870-87883, 2020, doi: [10.1109/ACCESS.2020.2993034](https://doi.org/10.1109/ACCESS.2020.2993034).
34. D. Lialios, N. Ntetsikas, K. D. Paschaloudis, C. L. Zekios, **S. V. Georgakopoulos**, and G. A. Kyriacou, "Design of True Time Delay Millimeter Wave Beamformers for 5G Multibeam Phased Arrays," *Electronics* 9, no. 8: 1331, doi: [10.3390/electronics9081331](https://doi.org/10.3390/electronics9081331).
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36. A. -S. Kaddour, C. A. Velez, M. Hamza, N. C. Brown, C. Ynchausti, S. P. Magleby, L. Howell, and **S. V. Georgakopoulos**, "A Foldable and Reconfigurable Monolithic

- Reflectarray for Space Applications,” in *IEEE Access*, vol. 8, pp. 219355-219366, 2020, doi: [10.1109/ACCESS.2020.3042949](https://doi.org/10.1109/ACCESS.2020.3042949).
37. N. E. Russo, C. L. Zekios, and **S. V. Georgakopoulos**, “Decoupling Modes in Multi-Band Microstrip Patch Antennas,” *IEEE Open Journal of Antennas and Propagation*, vol. 2, pp. 118-125 (2021), doi: [10.1109/OJAP.2020.3046458](https://doi.org/10.1109/OJAP.2020.3046458).
 38. J. Barreto, G. Perez, A. -S. Kaddour and **S. V. Georgakopoulos**, "A Study of Wearable Wireless Power Transfer Systems on the Human Body," in *IEEE Open Journal of Antennas and Propagation*, vol. 2, pp. 86-94, 2021, doi: [10.1109/OJAP.2020.3043579](https://doi.org/10.1109/OJAP.2020.3043579).
 39. M. R. Khan, C. L. Zekios, **S. Georgakopoulos** and S. Bhardwaj, "Automated Design and Optimization of Origami Electromagnetic Structures [EM Programmer’s Notebook]," in *IEEE Antennas and Propagation Magazine*, vol. 63, no. 2, pp. 89-102, April 2021, doi: [10.1109/MAP.2021.3053962](https://doi.org/10.1109/MAP.2021.3053962).
 40. A. J. Rubio, A. -S. Kaddour, C. Ynchausti, S. Magleby, L. L. Howell and **S. V. Georgakopoulos**, "A Foldable Reflectarray on a Hexagonal Twist Origami Structure," in *IEEE Open Journal of Antennas and Propagation*, vol. 2, pp. 1108-1119, 2021, doi: [10.1109/OJAP.2021.3127312](https://doi.org/10.1109/OJAP.2021.3127312).
 41. **S. V. Georgakopoulos** et al., "Origami Antennas," in *IEEE Open Journal of Antennas and Propagation*, vol. 2, pp. 1020-1043, 2021, doi: [10.1109/OJAP.2021.3121102](https://doi.org/10.1109/OJAP.2021.3121102).
 42. N. E. Russo, C. L. Zekios, and **S. V. Georgakopoulos**, “MIMO Systems in SmallSat Swarms: System Characterization with the Introduction of a Channel Model,” in *IEEE Transactions on Antennas and Propagation*, doi: [10.1109/TAP.2022.3161310](https://doi.org/10.1109/TAP.2022.3161310).
 43. K. D. Paschaloudis, C. L. Zekios, **S. V. Georgakopoulos**, and G. A. Kyriacou, “A Finite Element Based Characteristic Mode Analysis”, in *IEEE Open Journal of Antennas and Propagation*, vol. 3, pp. 287-303, 2022, doi: [10.1109/OJAP.2022.3150594](https://doi.org/10.1109/OJAP.2022.3150594).
 44. M. Hamza, C. L. Zekios and **S. V. Georgakopoulos**, “A Low Profile Planar Dual-Polarized Tightly Coupled Dipole Reflectarray With 5:1 Bandwidth,” in *IEEE Open Journal of Antennas and Propagation*, vol. 3, pp. 958-969, 2022, doi: [10.1109/OJAP.2022.3198468](https://doi.org/10.1109/OJAP.2022.3198468).
 45. A. Biswas, C. L. Zekios, C. Ynchausti, L. L. Howell, S. P. Magleby, **S. V. Georgakopoulos** “An ultra-wideband origami microwave absorber”, *Scientific Reports*, 12 (2022), p. 13449, [10.1038/s41598-022-17648-4](https://doi.org/10.1038/s41598-022-17648-4).
 46. A. J. Rubio, A. -S. Kaddour and **S. V. Georgakopoulos**, "A Mechanically Rollable Reflectarray With Beam-Scanning Capabilities," in *IEEE Open Journal of Antennas and Propagation*, vol. 3, pp. 1180-1190, 2022, doi: [10.1109/OJAP.2022.3214273](https://doi.org/10.1109/OJAP.2022.3214273).
 47. D. I. Lialios, C. L. Zekios, **S. V. Georgakopoulos** and G. A. Kyriacou, "A Novel RF to Millimeter Waves Frequency Translation Scheme for Ultra-Wideband Beamformers Supporting the Sub-6 GHz Band," in *IEEE Transactions on Antennas and Propagation*, vol. 70, no. 12, pp. 11718-11733, Dec. 2022, doi: [10.1109/TAP.2022.3210698](https://doi.org/10.1109/TAP.2022.3210698).

48. G. P. Carrara, C. L. Zekios, and **S. V. Georgakopoulos**, "A TM₁₁ High-Order Mode Leaky Wave Antenna," in *IEEE Transactions on Antennas and Propagation*, vol. 71, no. 1, pp. 119-130, Jan. 2023, doi: [10.1109/TAP.2022.3217257](https://doi.org/10.1109/TAP.2022.3217257).
49. R. E. Sendrea, C. L. Zekios and **S. V. Georgakopoulos**, "Multifidelity Surrogate Modeling Based on Analytical Eigenfunction Expansions," in *IEEE Transactions on Antennas and Propagation*, vol. 71, no. 2, pp. 1673-1683, Feb. 2023, doi: [10.1109/TAP.2022.3228615](https://doi.org/10.1109/TAP.2022.3228615).
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51. N. E. Russo, C. L. Zekios, **S. V. Georgakopoulos**, "A CMA-Based Electronically Reconfigurable Dual-Mode and Dual-Band Antenna," *Electronics* 2023, 12, 3915. [10.3390/electronics12183915](https://doi.org/10.3390/electronics12183915).
52. A. J. Rubio, A. S. Kaddour, H. Pruet, S. Magleby, L. L. Howell and **S. V. Georgakopoulos**, "A Deployable Volume-Efficient Miura-Ori Reflectarray Antenna for Small Satellite Applications," in *IEEE Access*, vol. 11, pp. 119313-119329, 2023, doi: [10.1109/ACCESS.2023.3327057](https://doi.org/10.1109/ACCESS.2023.3327057).
53. A. G. Koutinos, C. L. Zekios and **S. V. Georgakopoulos**, "Increasing the Bandwidth of Wideband Antennas Using the Frequency Pulling Technique," in *IEEE Open Journal of Antennas and Propagation*, vol. 4, pp. 1095-1102, 2023, doi: [10.1109/OJAP.2023.3329762](https://doi.org/10.1109/OJAP.2023.3329762).
54. D. I. Lialios, C. L. Zekios and **S. V. Georgakopoulos**, "A New Class of Full-Dimensional Planar True-Time-Delay Beamforming Networks," in *IEEE Transactions on Antennas and Propagation*, vol. 72, no. 3, pp. 2337-2346, March 2024, doi: [10.1109/TAP.2024.3352832](https://doi.org/10.1109/TAP.2024.3352832).

Proceedings

1. **S. V. Georgakopoulos** and C. A. Balanis, "Cosite Interference of Communication Systems," *6th International Conference on Advances in Communications and Control Digest*, Korfu, Greece, pp. 837-845, June 23-27, 1997.
2. C. A. Balanis, C. D. Katsibas, and **S. V. Georgakopoulos**, "Wireless Mobile Antennas and Cosite Interference in Communication Systems," *NATO Advanced Study Institute, Applied Computational Electromagnetics*, Samos, Greece, 1997. doi: [10.1007/978-3-642-59629-2_16](https://doi.org/10.1007/978-3-642-59629-2_16).
3. **S. V. Georgakopoulos**, C. A. Balanis, and C. R. Birtcher, "Mutual Coupling Between Wire Antennas Mounted on Helicopter Airframes: FDTD vs. Measurements," *IEEE Magnetics Society, 8th Biennial IEEE Conference on Electromagnetic Field Computation Digest*, Tucson, AZ, pp. 173, June 1-3 1998.
4. **S. V. Georgakopoulos**, C. A. Balanis and C. R. Birtcher, "Coupling between wire antennas: analytic solution, FDTD, and measurements," *IEEE Antennas and Propagation Society International Symposium. 1998 Digest. Antennas: Gateways to the Global*

- Network. Held in conjunction with: USNC/URSI National Radio Science Meeting (Cat. No.98CH36, Atlanta, GA, 1998, pp. 504-507 vol.1, doi: [10.1109/APS.1998.699188](https://doi.org/10.1109/APS.1998.699188).*
5. **S. V. Georgakopoulos**, C. A. Balanis and C. R. Birtcher, "Cosite interference between wire antennas using the finite-difference time-domain method," *1998 IEEE EMC Symposium. International Symposium on Electromagnetic Compatibility. Symposium Record (Cat. No.98CH36253)*, Denver, CO, USA, 1998, pp. 1014-1017 vol.2, doi: [10.1109/ISEMC.1998.750347](https://doi.org/10.1109/ISEMC.1998.750347).
 6. **S. V. Georgakopoulos**, A. C. Polycarpou and C. A. Balanis, "Full-wave analysis of HF antennas on helicopters using the FDTD, FEM and NEC," *IEEE Antennas and Propagation Society International Symposium. 1999 Digest. Held in conjunction with: USNC/URSI National Radio Science Meeting (Cat. No.99CH37010)*, Orlando, FL, 1999, pp. 1058-1061 vol.2, doi: [10.1109/APS.1999.789494](https://doi.org/10.1109/APS.1999.789494).
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 8. A. C. Polycarpou, **S. V. Georgakopoulos**, and C. A. Balanis, "3-D Modeling of Helicopter Radiation Problems using the FDTD, FEM and NEC," *International Union of Radio Science*, Toronto, Canada, August 13-21, 1999.
 9. C. A. Balanis, A. C. Polycarpou, and **S. V. Georgakopoulos**, "Computational Electromagnetic Methods for Interconnects and Small Structures," *SIMD '99*, Hawaii, December, 1999.
 10. A. C. Polycarpou, Dong Ho Han, **S. V. Georgakopoulos** and C. A. Balanis, "3-D Modeling of Complex Helicopter Structures: Predictions and Measurements," *16th Annual Review of Progress in Applied Comput. Electromagnetics*, Monterey, CA, March 20-25, 2000.
 11. **S. V. Georgakopoulos**, C. A. Balanis and R. Renaut, "Pseudospectral methods versus FDTD," *IEEE Antennas and Propagation Society International Symposium. Transmitting Waves of Progress to the Next Millennium. 2000 Digest. Held in conjunction with: USNC/URSI National Radio Science Meeting (C, Salt Lake City, UT, 2000, pp. 1506-1509 vol.3, doi: [10.1109/APS.2000.874494](https://doi.org/10.1109/APS.2000.874494).*
 12. C. Birtcher, S. Georgakopoulos and C. A. Balanis, "Artificial loss in FDTD predictions of high-Q cavities," *IEEE Antennas and Propagation Society International Symposium. Transmitting Waves of Progress to the Next Millennium. 2000 Digest. Held in conjunction with: USNC/URSI National Radio Science Meeting (C, Salt Lake City, UT, 2000, pp. 1492-1495 vol.3, doi: [10.1109/APS.2000.874488](https://doi.org/10.1109/APS.2000.874488).*
 13. R. Renaut, **S. V. Georgakopoulos**, and C. A. Balanis, "FDTD (2,4) for Maxwell's Equations in 3D," *International Conference on Spectral and High Order Methods (ICOSAHOM-01)*, p. 5, Uppsala University, Sweden, June 11-15, 2001.
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