

Book Contributions

L. Katehi, G. Rebeiz, T. Weller, R. Drayton, S. Robertson and C. Chi, *The Industrial Electronics Handbook*, ed. David Irwin, CRC Press, Inc., Section X, Si Micromachining in High-Frequency Applications, pp. 1547-1572, 1996.

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1. B. Lakshminarayanan and T. Weller, "Design and Modeling of a 4-Bit MEMS Phase Shifter," to appear in *IEEE Trans MTT*.
2. B. Lakshminarayanan and T. Weller, "Electronically Tunable Multi-line TRL Using an Impedance Matched Multi-Bit MEMS Phase Shifter, *Microwave and Wireless Components Letters*, IEEE [see also *IEEE Microwave and Guided Wave Letters*] Volume 15, Issue 2, Feb. 2005 Page(s):137 - 139.
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4. J. Naylor, T. Weller, et al., "Slow Wave CPW for Phase Matching and Slot-Line Transition Design," accepted for publications in *IEE Electronics Letters*, February 2005.
5. M. Scardelletti, et al., "Coplanar Waveguide-Fed Slot Antennas on Cylindrical Substrates," *International J. of Electronics and Communications*, January 2005.
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15. N. Dib and T. Weller, "Two-Dimensional Finite Difference Time Domain Method Analysis of Cylindrical Transmission Lines," *Intl. Journal of Electronics*, volume 87, number 9, pp. 1065-1081, September 2000.
16. N. Dib and T. Weller, "Finite Difference Time Domain (FDTD) Analysis of Cylindrical Coplanar Waveguide (CCPW) Circuits," *Intl. Journal of Electronics*, volume 87, number 9, pp. 1083-1094, September 2000.
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1. R. Heindl, et al., "Microwave impedance and tunability of multilayered ferroelectric – ferrite films," submitted to 50th Magnetism and Magnetic Materials (MMM) Conference, May 2005.
2. S. Natarajan, C. Trent, T. Weller and M. Smith, "A 3×3 , K-Band CPW-fed, Aperture-Coupled Antenna Array for Radiometer Applications", 2005 European Microwave Conference, February 2005.
3. T. Ketterl, D. Fries and T. Weller, "SPDT MEMS Switch Using a Single Bias Voltage and Based on Dual Series and Shunt Capacitive MEMS Switches", 2005 European Microwave Conference, February 2005.
4. S. Natarajan, T. Weller and D. Fries, "3-D PCB Toroidal Inductors for RF Applications", accepted for publication at the 38th International Symposium on Microelectronics, Philadelphia, PA, Sept. 2005.
5. S. Melais, T. Weller, and M. Wilhelm, "A Low Profile Broadband Strip-line Balun," accepted for publication at the 2005 IEEE AP-S, July 2005.
6. T. Ketterl, T. Weller and B. Rossie, "Focused Ion Beam Milled Sub-Micron Capacitive Gaps in Coplanar Transmission Lines," to be presented at the 2005 IEEE AP-S, July 2005.
7. P. B. Zantye, A. Kumar, S. Natarajan and T. Weller, Use of Chemical Mechanical Polishing in the Fabrication of Radio Frequency (RF) Micro Coaxial Transmission Lines (MCTL), 207th Meeting of the Electrochemical Society, Quebec City, Canada, May 15-20, 2005.
8. M. Sarehraz, et al., "Rectenna Developments for Solar Energy Collection," submitted to the IEEE 31st Photovoltaic Conference, December 2004.

9. B. Lakshminarayanan and T. Weller, "Reconfigurable MEMS Transmission Lines with Independent ZO- and β -Tuning," accepted to 2005 IEEE International Microwave Symposium, December 2004.
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12. S. Balachandran, T. Weller, et al., "MEMS Tunable Planar Inductors Using DC-Contact Switches," 2004 European Microwave Conference, February 2004.
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16. T. Weller, et al., "Industry Teaming for Graduate Course Development: A New RFIC Course Sequence at the University of South Florida," presented at the 2004 ASEE SE Conference, December 2003.
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2. S. Krishnan, et al., "Fabrication and Characterization of Thin-Film Metal-Insulator-Metal Diodes for Rectenna," submitted to IEEE Device Research Conference, March 2005.
3. S. Balachandran, T. Weller and M. Smith, "MEMS Tunable Inductors," 2004 All-Raytheon Symposium, Boston, MA, April 2004.
4. W. Clausen, et al., "Black-Box Modeling of RFIC Amplifiers for Linear and Non-Linear Simulations," 2004 Motorola Simulation Symposium, Chicago, IL, July 2004.
5. J. Culver and T. Weller, "The Analysis of Metal-Thick-Insulator-Semiconductor CPW Lines using Generalized Transverse Resonance," *Wireless and Microwave Technology Conference 2004*, Tampa, FL, April 2004.
6. B. Lakshminarayanan and T. Weller, "CPW Line-to-Line Coupling on Glass and Low Resistivity Silicon," 62nd Conference on Automatic Radio Frequency Techniques (ARFTG), Boulder, CO, December 2003.
7. T. Weller and D. Kwan, "How Accurate are the RCL Complex Substrate Scalable Models," 2003 Motorola Simulation Symposium, Chicago, IL, July 2003.

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