

Publication List for Thomas G. Livernois Ph.D., P.E.

Publications

- Arora A, Medora NK, Livernois TG, Swart J, "Safety of Lithium-Ion Batteries for Hybrid Electric Vehicles," *Electric and Hybrid Vehicles*, 2010, 18: 463-491
- Livernois, TG, "Electric and Magnetic Fields, Ions, Audible Noise, and Radio Noise", New York Regional Interconnection Study, November 2007
- Livernois TG, "On the Reciprocity Factor for Shielded Microstrip," *Microwave and Optical Technology Letters* 1995; 10(6):327-330, December.
- Livernois TG, "Characterization of Dissipative Losses in Microwave Circuits," *Microwave and Optical Technology Letters* 1994; 7(15):687-689, October.
- Livernois TG, East JR, "Analysis of a Microstrip Step Discontinuity Fabricated on a Metal-Insulator-Semiconductor (MIS) Substrate," *Microwave and Optical Technology Letters* 1992; 5(13):661-666, December.
- Livernois TG, Nyquist DP, Cloud MJ, "Scattering Effects in the Dielectric Slab Waveguide Due to Electrically Dissipative and Active Discontinuities," *IEEE Transactions on Microwave Theory and Techniques* 1991; 39(3):579-583, March.
- Livernois TG, Katehi PB, "A Simple Method for Characterizing Planar Transmission Line Discontinuities on Dissipative Substrates," *IEEE Transactions on Microwave Theory and Techniques* 1991; 39(2):368-370, February.
- Livernois TG, Katehi PB, "Characteristic Impedance and Transverse Field Distribution in MIS Microstrip," *IEEE Transactions on Microwave Theory and Techniques* 1990; 38(11):1740-1743, November.
- Livernois TG, Katehi PB. "Generalized Method for Deriving the Space-Domain Green's Function in a Shielded, Multilayer Substrate Structure, with Applications to MIS Slow Wave Transmission Lines," *IEEE Transactions on Microwave Theory and Techniques* 1989; 37(11):1761-1767, November.
- Livernois TG, Nyquist DP. "Integral Equation Formulation for Scattering by Dielectric Discontinuities Along Open Boundary Waveguides," *Journal of the Optical Society of America A* 1987; 4(7):1289-1295, July.

Symposium Papers

- Medora, NK, Arora, A, Livernois, TG, "Series Arcing Faults in Electrical Transportation Systems," SAE 2010-01-0036, April 2010

- Arora A, Medora N, Livernois T, “Circuit Protection Devices & Arc Fault Detection Schemes for Electrical Automotive Systems,” IEEE Symposium on Product Compliance Engineering, Austin, TX, October 20–22, 2008.
- Teune J, Livernois TG, “Correlation Between Automotive Electromagnetic Immunity Tests,” IEEE 1999 International Symposium on Electromagnetic Compatibility, Seattle, WA, August 2–6, 1999.
- Slattery K, Neal J, Livernois T, Smith S., “A Description of the Implementation of an Automated Conducted Emissions Chamber for Automotive Testing,” IEEE 1998 International Symposium on Electromagnetic Compatibility, Denver, CO, August 24–28, 1998.
- Schuster JW, Leubbers RJ, Livernois TG, “Application of the Recursive Convolution Technique to Modeling Lumped Circuit Elements in FDTD Simulations,” IEEE AP-S Symposium, Atlanta, June 21–26, 1998.
- Slattery KP, Monahan RL, Livernois TG, Smith SV, “Characterization of TEM Cell Discontinuities Due to Filtered DUT Test Harnesses,” IEEE EMC Symposium, Austin TX, August 18–22, 1997.
- Slattery KP, Livernois TG, “The Effects of I/O Wire Extensions on Measured RF Voltage,” IEEE EMC Symposium, Austin TX, August 18–22, 1997.
- Livernois TG, “Module Level Conducted Immunity Testing,” 1995 Society of Automotive Engineers EMC TopTec, Novi, MI, September 13–14, 1995.
- Livernois TG, “TEM Cell Radiated Immunity Testing,” 1995 Society of Automotive Engineers EMC TopTec, Novi, MI, September 13–14, 1995.
- Livernois TG, “Analysis and Design of Slow Wave Structures Using an Integral Equation Approach,” IEEE/MTT-S International Microwave Symposium, Long Beach, CA, June 12–16, 1989.

Speaking Engagements

- Autoline with John McElroy, Episode 1622, “Highly Charged”, May 25, 2012
- Product Liability Hot Topics Seminar for Defense Counsel, “Collision Avoidance Technology – New Technology Bringing A Host of New Claims”, Troy, Michigan, September 2009.
- Lotusphere 1997 – Pool of Knowledge, Engineering Book of Knowledge (EBOK), Orlando, Florida, January 27-30, 1997

Doctoral Thesis

- Livernois TG, “Numerical and Experimental Analysis of Metal-Insulator-Semiconductor Microstrip Structures,” The University of Michigan, Ann Arbor, Michigan, 1991.