

Veröffentlichungen

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Hinweis: Eine vollständige elektronische Liste der Veröffentlichungen findet sich unter folgender Internetseite: <https://orcid.org/0009-0003-1650-6727>

1. Monografien

- [1] F. Brauer, *Schutz von komplexen elektronischen Systemen vor Störungen durch elektromagnetische Pulse hoher Leistung*, Dr.-Ing. dissertation, Inst. für Messtechnik und EMV, Technische Universität Hamburg-Harburg, Hamburg, Germany, 2012, ISBN 978-3-86955-982-7 (in German).

2. Begutachtete Zeitschriftenartikel

- [2] F. Brauer, S. Fahlbusch, J. L. ter Haseborg, and S. Potthast, "Investigation of hardening measures for IT equipment against radiated and conducted IEMI," *IEEE Trans. Electromagn. Compat.*, vol. 54, no. 5, pp. 1055–1065, 2012.
- [3] F. Brauer and J. L. ter Haseborg, "Linear and nonlinear filters under high power microwave conditions," *Adv. Radio Sci.*, vol. 7, pp. 255–259, 2009, doi: 10.5194/ars-7-255-2009.
- [4] F. Brauer, R. Krzikalla, and J. L. ter Haseborg, "Investigation of the behaviour of UWB protection elements against HPM signals," *Adv. Radio Sci.*, vol. 6, pp. 285–288, 2008, doi: 10.5194/ars-6-285-2008.

3. Begutachtete Buchkapitel & Aufsätze

- [5] F. Brauer, J. L. ter Haseborg, and S. Potthast, "The generation of UWB pulses with high repetition rates for immunity tests," in *Proc. EMC Europe 2010*, Wrocław, Poland, Sep. 13–17, 2010.
- [6] F. Brauer, R. Kanyou Nana, J. L. ter Haseborg, and S. Dickmann, "Ermittlung von Transferfunktionen zur Abschätzung der HPEM-Empfindlichkeit eines IT-Testsystems," in *Proc. EMV 2010 – Int. Fachmesse und Kongress für Elektromagnetische Verträglichkeit*, Düsseldorf, Germany, Mar. 9–11, 2010, pp. 55–62 (in German).
- [7] F. Brauer, F. Sabath, and J. L. ter Haseborg, "Susceptibility of IT network systems to interferences by HPEM," in *Proc. 2009 IEEE Int. Symp. Electromagn. Compat.*, Austin, TX, USA, Aug. 17–21, 2009.
- [8] F. Brauer, C. Klünder, and J. L. ter Haseborg, "The influence of different PCB materials on the coupling behavior of high power electromagnetics," in *Proc. EMC Europe Workshop 2009*, Athens, Greece, Jun. 10–12, 2009.

- [9] C. Klünder, F. Brauer, and J. L. ter Haseborg, "Behavior of 2.4 GHz ISM bandpass filters of different materials by applying UWB pulses," in *Proc. EMC Europe Workshop 2009*, Athens, Greece, Jun. 10–12, 2009.
- [10] F. Brauer, R. Krzikalla, and J. L. ter Haseborg, "A concept for the generation of conducted ultra wideband pulses with high repetition rates," in *Proc. EMC Europe 2008*, Hamburg, Germany, Sep. 8–12, 2008.
- [11] F. Brauer, R. Krzikalla, and J. L. ter Haseborg, "Simulation und Messung der Einkopplung von elektromagnetischen Feldern in komplexe elektronische Systeme," in *Proc. EMV 2008 – Int. Fachmesse und Kongress für Elektromagnetische Verträglichkeit*, Düsseldorf, Germany, Feb. 19–21, 2008, pp. 327–334 (in German).

4. **Vorträge**

- [12] F. Brauer, T. Dyballa, and J. L. ter Haseborg, "Simulation and measurement techniques to estimate the high power electromagnetic coupling into small casings," presented at the *Progress In Electromagnetics Research Symp. (PIERS)*, Marrakesh, Morocco, 2011.
- [13] F. Brauer, J. L. ter Haseborg, and S. Potthast, "Development of a protection concept for an IT test system against HPEM influences," presented at the *1st Eur. Workshop on Intentional Electromagnetic Interference*, Hamburg, Germany, Nov. 10–11, 2010.
- [14] F. Brauer, J. L. ter Haseborg, and S. Potthast, "Protection circuits for IT equipment under HPEM conditions," presented at *AMEREM 2010*, Ottawa, ON, Canada, Jul. 5–9, 2010.
- [15] F. Brauer and J. L. ter Haseborg, "SPICE simulations and measurement techniques for protection circuits against UWB and HPM signals," presented at *EUROEM 2008*, Lausanne, Switzerland, Jul. 21–25, 2008.