

Publications

List of Publications

Theses

K. Grewolls: Untersuchungen zum Resonanzverhalten von Eisenbahnbrücken unter dem Einfluß von Hochgeschwindigkeitsverkehr [Engl. translation: *Investigations on the resonance behaviour of railway bridges under the influence of high speed traffic*]. Diploma Thesis. University of Applied Sciences Munich, 2005.

K. Grewolls: Einfluß des Windes auf die Rauch- und Wärmeabfuhr und die Brandraumtemperaturen bei brennenden Gebäuden. [Engl. translation: *The influence of wind on smoke and heat exhaust and on the temperatures in the room of fire origin in building fires*]. MEng thesis, EIPOS/University of Applied Sciences Zittau/Görlitz, 2008.

Books

K. Grewolls and G. Grewolls: Praxiswissen Brandschutz - Simulationen [Engl. translation: *Best Practice in Fire Protection: Simulations*]. 112 pages. Köln, Feuertrutz Verlag für Brandschutzpublikationen, Oktober 2012.

Contributions to Books

K. Grewolls: Computer Simulation of Fire Hazards and Evacuation. Book chapter in: *Fire Toxicity*, Edited by A. Stec and T. Richard Hull, Woodhead Publishing, Cambridge, UK, April 2010.

Journal Papers

K. Grewolls: Rauchableitung unter Windeinfluß [Engl. translation: *Smoke Exhaust under the Influence of Wind*], Feuertrutz Magazin, May 2009.

Jennifer Rhodes and Kathrin Grewolls: Brandgefahr durch Wandanstriche [Engl. translation: *Fire Hazards from Wall Coating*], Feuertrutz Magazin 03/2011.

Other Scholarly Output (Selection)

Hahn, J., Grewolls, K. and Rosemann, M.: GVZ II Ingolstadt - von der Simulation über die Prüfung zum Versuch [Engl. translation: *GVZ II Ingolstadt - From Simulation via Assessment to Testing*]. Lecture at the Scientific Symposium of the VIB (Verein zur Förderung der Ingenieurmethoden im Brandschutz), Zürich 2012.

K. Grewolls: Sensitivity Analysis of Room Fire CFD-Simulations. Lecture at the 8th Weimar Optimization and Stochastic Days, Weimar, 2011.

http://www.dynardo.de/fileadmin/Material_Dynardo/bibliothek/WOST_8.0/Presentation_Grewolls_Kathrin.pdf

K. Grewolls: Wie genau müssen Brandparameter sein? Probabilistische Analyse der Sensitivität von Brandsimulationen auf Basis des Latin-Hypercube-Samplings [Engl. translation: *Which accuracy is needed for fire parameters? Probabilistic Analysis of the Sensitivity of Fire Simulations Based on Latin Hypercube Sampling.*]. Lecture at the 5th Usergroup meeting of the FDS Usergroup, Berlin, 2011.

K. Grewolls, T.R. Hull, A. Stec and D.A. Purser: Possibilities and Limitations of Toxicity Modelling by FDS5 versus FDS4, Lecture, 8th International Conference on Performance Based Codes and Fire Safety Design Methods. Lund, Sweden, 2010.

K. Grewolls, T.R. Hull, A. Stec and D.A. Purser: Sensitivity analysis for Toxicity Modelling. Lecture 11th International Symposium on Fire Protection, Interschutz. Leipzig, 2010.

K. Grewolls, I. Bullerjahn: Operating conditions of fire brigades in tunnels. Lecture, 11th International Symposium on Fire Protection, Interschutz. Leipzig, 2010.

K. Grewolls, T.R. Hull, A. Stec and D.A. Purser: Fire Effluent Toxicity: Possibilities and Limitations of Modelling Hazards. 6th Conference on Fire and Explosion Hazards, Leeds, 2010.

Paper I:

**K. Grewolls, T.R. Hull, A. Stec and D.A. Purser:
Fire Effluent Toxicity: Possibilities and Limitations of
Modelling Hazards.**

6th Conference on Fire and Explosion Hazards, Leeds, 2010.

Paper II:

K. Grewolls:

Computer Simulation of Fire Hazards and Evacuation.

Book chapter in:

Fire Toxicity

Edited by A. Stec and T. Richard Hull

Woodhead Publishing, Cambridge, UK, April 2010.