

Curriculum Vitae

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Electric Power System and High Voltage Technology
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Employment History

11/2020	HTWK Leipzig University of Applied Science, Leipzig (Germany) Faculty of Electrical Engineering and Information Technology Chair of Electric Power System and High Voltage Technology
02/2010	Head of Research Unit High Voltage Technologies Department of Electrical Engineering and Information Technology TU Ilmenau (Germany)
04/2005	Assistant Professor (Akademischer Rat), research and teaching in the field of high voltage engineering
03/2000	Post-Doc at Technische Universität Ilmenau at Institute of Electric Power and Control Technologies at Department Electrical Apparatus and Switchgear
2000	Ph.D. at Technische Universität Ilmenau, dissertation on „Switching low inductive currents in SF ₆ ”
1995	Industrial Project “Controlled switching” (Siemens AG)
1991	Research student at Technische Hochschule Ilmenau at Institute of Electric Power and Control Technologies at Department Electrical Apparatus and Switchgear
1986 - 1991	Technische Hochschule Ilmenau, Germany (Electrical Engineering)
1984, 1986	VEB Starkstromanlagenbau Halle-Leipzig

Research Interests

- Measurement and numerical computation of switching transients of circuit breaker in power electric systems
- Applications of high-electric field, discharges: high-voltage technologies
- Effects at mixed voltages in gas, solid materials and liquids
- Insulation systems for solid state transformers stressed by kHz-high-voltages
- Discharges in gases and liquids at dc-voltage with superposed kHz-high-voltages
- Coordination of insulation in high voltage power systems

Academic Activities:

- Member of VDE Working group (AK 10) „Insulation coordination“ since 2010
- Reviewer for journals: IEEE “Power and Delivery”, Journal “Plasma Physics and Technology”, Journal „Cellulose“

Teaching at HTWK Leipzig University of Applied Science, Leipzig (Germany)

- Lecture "High Voltage Engineering"
- Lecture „Electric Power System“
- Lecture „High Voltage Insulation Systems“
- Lecture „Power Grids“

Teaching at other Universities and Companies:

- Lecture "High-Voltage Technology", teaching assignment at TU Berlin, 2012
- Lecture "Current Challenges for Electrical Power Engineering" at the Moscow Power Engineering Institute, 2015 and 2016
- Lectures and Tutorials “High-Voltage Engineering”, “Fundamentals of DC-Technology” for industrial companies
- Lecture "Switchgear Technology", teaching assignment at the HTWK Leipzig, 2018

Teaching at Technische Universität Ilmenau 1995 – 2020:

- Lecture “Switching Arc and Switchgear Technologies” (1995 – 2010)
- Lecture “Electrical Power Engineering” (2000 – 2003)
- Lecture “Fundamentals of High-Voltage Technology” (2003 – 2010)
- Lecture “Diagnostics of devices in Power Electrical Systems” (since 2003)
- Lecture "High-Voltage and Insulation Technology" (since 2003)
- Tutorials on "Fundamentals of Electrical Engineering" (2017 – 2018)

Organisation of Symposium and Workshop

Scientific Chair of 3th Symposium “Insulation Coordination, Ilmenau, Germany, 2018

Scientific Chair of 1th International Workshop “Medium Frequency High-Voltage Insulation Systems”, Ilmenau, Germany, 2020