

Technical University of Denmark

Oersted·DTU, Power Electronics Group



The Power Electronics Group is headed by Professor Michael A. E. Andersen. For more than a decade, work at Oersted·DTU has been carried out in the field of switch-mode audio power amplifiers, which has now become today's standard in this field and has made Oersted·DTU the world research leader within this field.

Research activities covers Power Converters ranging from mega-watt wind power through kilo-watt PFC and hundreds-of-watt class-D audio power amplifiers to milli-watt ultra-low-consuming standby power supplies.

Key Research Fields & Competence Areas:

- Switch-mode (class-D) audio power amplifiers
- Hysteresis control of converters
- Standby power supplies
- Tracking power supplies for RF-power amp.
- Universal mains PFC converters
- Digital control of power supplies
- High power electronics, HVDC-VSC etc.
- Wind power

Institute Highlights:

- State-of-the-art laboratories
- Gain-phase and impedance analyzers
- Spectrum analyzers
- Power sources and loads
- EMC chamber and compliance equipment
- Audio Precision analyzers
- PC-laboratory
- Attractive student environment

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