

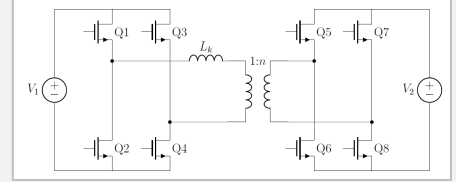
VARIABLE TRANSFORMERS

With the support of

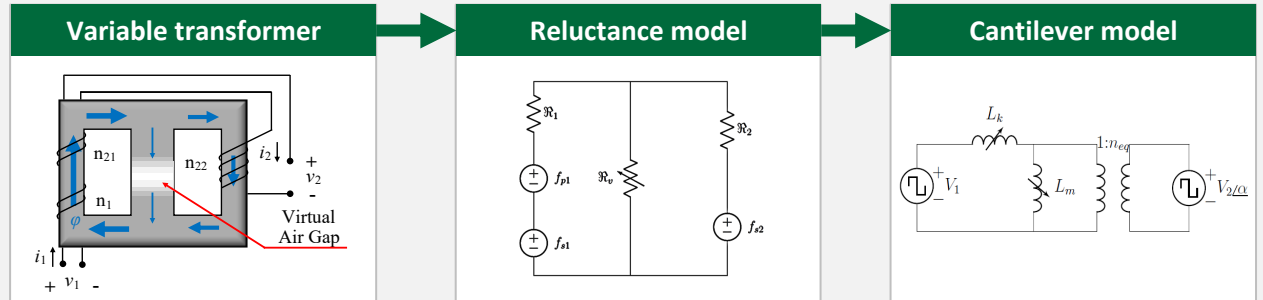


Variable Transformer for DAB Converters

- Low efficiency at low load conditions
- Low efficiency at unmatched voltages
- Variable transformer voltage gain

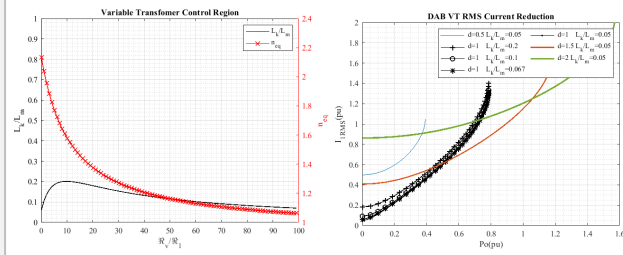


Controllable Magnetics Model

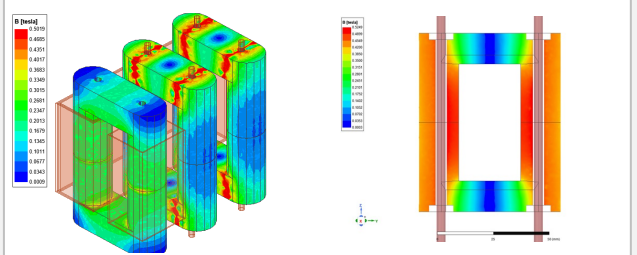


Simulations

Cantilever model simulations

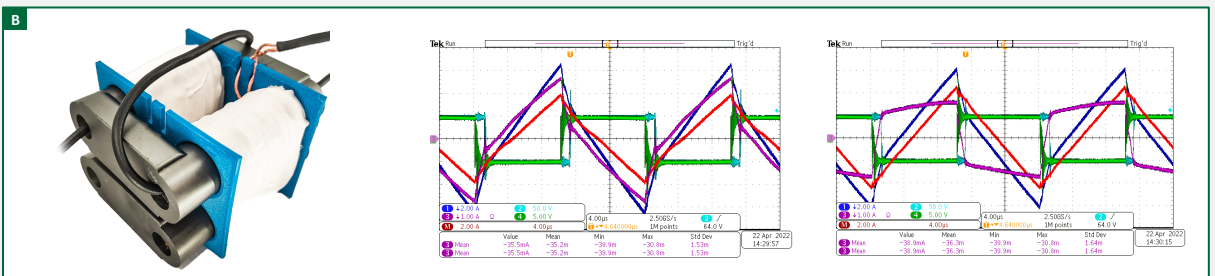
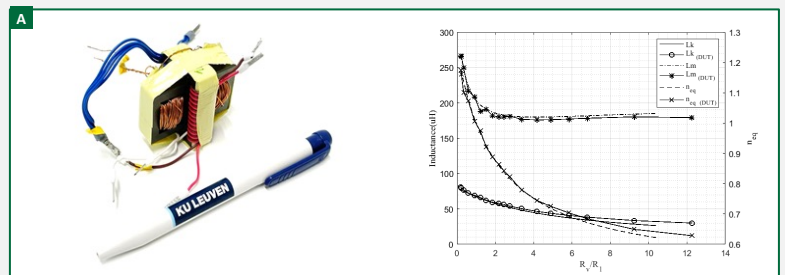


FEM simulations



Experimental Validations

- A Small signal validation
- B Large signal validation



CONTACT



KU Leuven - EnergyVille counts on the collaboration with industrial partners who seek research support in the field of power electronics. Within EnergyVille, KU Leuven collaborates with VITO (BMS, Battery, Heat Sinks,...), imec (Semiconductors, PV) and Hasselt University (Reliability, PV).



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