

Vladimir Vladimirov Dimitrov

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EDUCATION

TECHNICAL UNIVERSITY- SOFIA

PHD IN ELECTRICAL ENGINEERING

2016 | Sofia, BG

Department of Power Electronics
Faculty of Electrical and Electronics
Engineering

MSC IN ELECTRICAL ENGINEERING

2013 | Sofia, BG

Department of Power Electronics
Faculty of Electrical and Electronics
Engineering
GPA: 6 / 6.0

BS IN ELECTRICAL ENGINEERING

2011 | Sofia, BG

Department of Power Electronics
Faculty of Electrical and Electronics
Engineering
GPA: 5.92 / 6.0

TEACHING

GRADUATE

Digital Control of Power Converters (PI)

UNDERGRADUATE

Graphical Programming Systems (PI)

Power Supplies (TA)

Control Systems (TA)

Static Power Converters (TA)

Power Electronic Components(TA)

SKILLS

PROGRAMMING

Embedded C • C# • \LaTeX

TOOLS

Matlab • Simulink • Labview • MplabX

•Cadence Orcad • Ansys Simplorer

EXPERIENCE

TECHNICAL UNIVERSITY- SOFIA | ASSISTANT PROFESSOR, TENURE

TRACK

Jan 2018 – ongoing | Sofia, BG

TECHNICAL UNIVERSITY- SOFIA | ASSISTANT PROFESSOR, NON

TENURE

June 2015 – Jan 2018 | Sofia, BG

PUBLICATIONS

- [1] V. Dimitrov. Analysis of a power MOSFET switching process. *National Forum Electronics*, 1(1):103–109, 2015.
- [2] V. Dimitrov and P. Goranov. Modelling of Step-Up DC Converter. *ELECTROTECHNICA ELECTRONICA*, 3-4(11):13–20, 2014.
- [3] V. Dimitrov and P. Goranov. Analysis of a synchronous DC-DC converter working between two voltage sources. *Annual Journal of Electronics*, 8(1):215–219, 2014.
- [4] V. Dimitrov and P. Goranov. Driving system for Electric Vehicles: Modelling and simulation. *Annual Journal of Electronics*, 9(1):238–241, 2015.
- [5] V. Dimitrov, P. Goranov, and D. Hvarchilkov. An analytical approach to model the switching losses of a power MOSFET. In *2016 IEEE International Power Electronics and Motion Control Conference (PEMC)*, pages 928–933, Sept 2016.
- [6] V. V. Dimitrov, P. T. Goranov, and D. S. Hvarchilkov. Methods and power converters for charging/formation of VRLA batteries. In *2017 XXVI International Scientific Conference Electronics (ET)*, pages 1–4, Sept 2017.
- [7] D. Hvarchilkov, V. Dimitrov, and P. Goranov. Simulation of air transformers with different sizes and geometry. In *2017 15th International Conference on Electrical Machines, Drives and Power Systems (ELMA)*, pages 58–63, June 2017.