Modern Automotive Electrical Systems
Theory | Development | and Simulations for Electric Vehicles

THIS BOOK CHAPTER WILL BE
Indexed by **Wiley**, **Scopus, Web of Science**, and will be offered to **Thomson & Reuter's**

IMPORTANT DATES
Abstract submission (~500): **25/12/2020**
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BOOK CHAPTER CALL SCOPE
- Introduction to modern transportation electrification: benefits and challenges
- Data-driven environmental impact of traditional and electrified vehicles
- The life cycle of the electrical, and electronic components in automotive applications
- Overview of powertrain configurations in e-mobility: theory, modelling, and technology
- Digital and power electronics in automotive electrical systems
- Cabling design and sizing technology
- Advances in electric propulsion systems: electrical machines and drives
- Intelligent techniques for demand-side management
- Energy storage systems modelling for electrified vehicles
- Control techniques and algorithms in automotive electrical, and electronic systems
- Energy management strategies and algorithms in automotive systems
- Charger and charging technologies
- Electric Vehicles Systems and Technology: auxiliary systems
- Application of deep learning and reinforcement learning for electrical systems
- Artificial intelligent techniques for electric vehicles
- IoT for electric vehicles
- Wireless electric vehicle charging infrastructure
- Blockchain technologies for electrical systems
- Optimisation methods for electrical units sizing (battery, e-motors, etc.)
- Typhoon software for electric vehicle modelling and simulation
- Case studies on the above subjects using MATLAB Simulink software

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* Please use consistent font 11, Times New Roman, single column, images >600dpi
** Displayed equations are double numbered by chapter, in parentheses
*** Variables are italicized in the equations and in the text
**** All questions about submissions should be emailed to p.asef@herts.ac.uk and san@et.aau.dk.

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