

Electric drives for cars

(„Elektrische Antriebstechnik für Automobile“)

Summer Term 2023 (self-learning)

Prof. Dr.-Ing. Annette Mütze
Graz University of Technology

- Electric drives used in automotive applications: Traction and auxiliary drives
- Thermal modeling and system integration
- Failures: Modes, diagnosis and prevention
- Miscellaneous design aspects, such as lamination sheets and their manufacturing

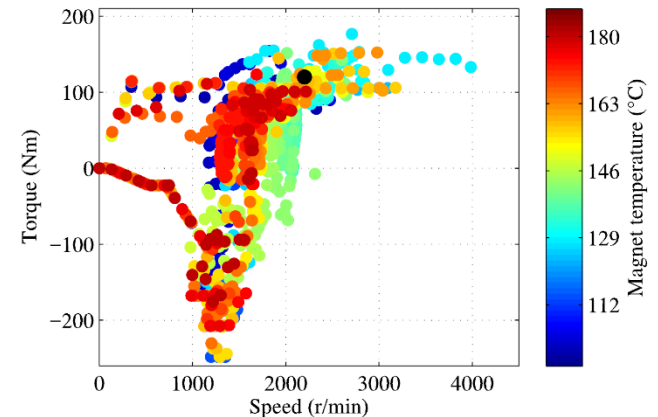
Kickoff (online): Thursday, 20.04.2023, 09:00

Consultation hours (online):

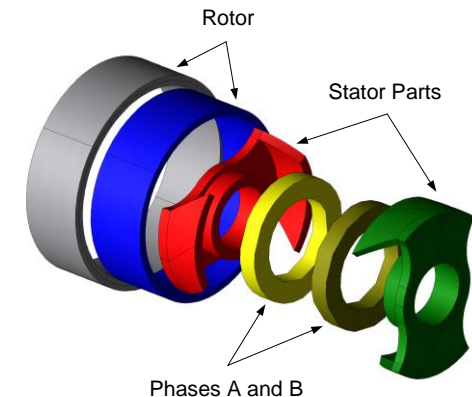
11.05.2023, 08.06.2023, 06.07.2023; 9:00-9:45

The lecture materials are provided in Moodle.

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Integrated Starter-Generator Torque-Speed Operating Points with Magnet Temperature: The Black Point indicates the Nominal Operating Point; C. Paar, A. Muetze, IEEE TIAS, 53(3), pp. 1909-1919, 2017.



Innovative Low-Cost Sub-Fractional HP BLDC Claw-Pole Machine Design for Fan Applications
S. Leitner, H. Gruebler, A. Muetze, IEEE TIAS, 55(3), pp. 2558-2568, 2019.