

Investigation of sintering parameter influence to ceramic properties

✓ Bachelor- / Studien- / Masterarbeit

Sintering configuration, process steps and parameters determine the final mechanical and electrical properties of ceramics. To achieve the optimum properties of ceramics, the process parameters must be determined experimentally.

Tasks:

- Manufacturing of “green” ceramic bodies
- Creation of experimental matrix to determine optimal sintering parameters
- Creation of characterization schedule for quality determination
- In detail characterization of achieved properties of ceramic parts

Nature of the study: Experimental work, ceramic debinding and high-temperature sintering

You will learn: manufacturing and grinding of ceramics, sintering, use of microscope, use of various measurement devices

Optionally: simulations + experimental work

Additional information:

- You select language of the work, either German or English
- Multiple works on same topic possible (e.g. Studienarbeit + Masterarbeit)



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