Invitation to the block course

"Energy Methods in Material Modeling"

Introduction to the course on November 2\textsuperscript{nd}, 2016, starting 17:00.

IC 03 / 604 (south) IC 03 / 610 (south)

Course dates: two Saturdays (5.11., 10.12.16), 10:00-18:00 +
Wednesdays (9.11., 16.11., 23.11., 30.11., 7.12.16), 17:00-21:00

Exam: Sunday 22.1.17, 12:00-16:00, Room IC 03/606

Master students (e.g. 3\textsuperscript{rd} semester "Computational Engineering" / "Materials Science and Simulation", 2\textsuperscript{nd} semester "Maschinenbau"), PhD students

Contents:
- Focus of the course: studies in advanced continuum mechanics for energy-based material laws
- Description of material behavior via energy densities
- Mathematical concepts for studying energy densities
- Application to the example of phase transforming materials (e.g. shape memory alloys, TRIP steels)

Lecturer:
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Registration:
e-learning.rub.de \rightarrow \text{course ID: 127510-ws16 (to be activated)}