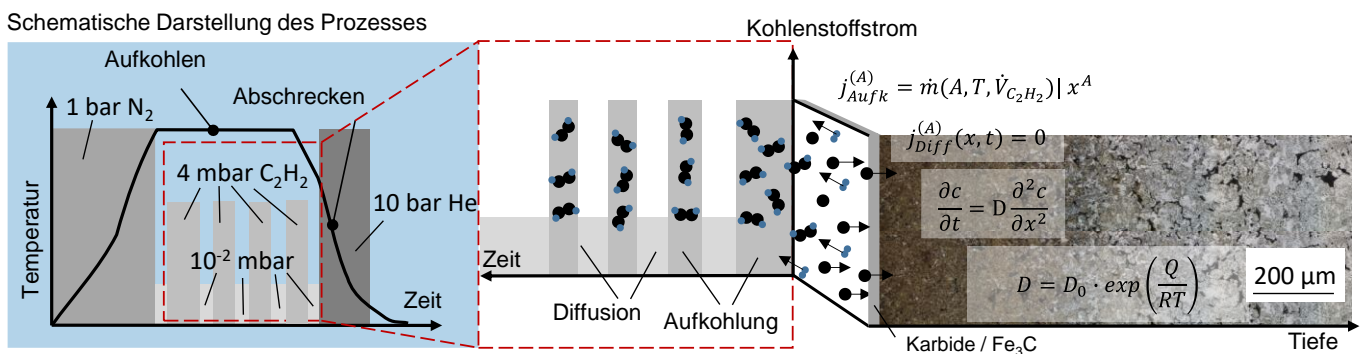


Mini / Master Thesis

„Modelling the Low-Pressure Carburizing“

Low pressure carburizing is a heat treatment technology that offers several benefits compared to the conventional gas carburizing. Typical features of the technology are shorter heat treatment cycles, avoiding surface oxidation, the possibility to be integrated in the production line and better environmental sustainability. A numerical modelling approach based on the finite difference method is to develop for a quantitative description of the carbon profile after the carburizing by considering the carbon transport to the surface, carbide precipitations and diffusion into the bulk.



Requirements

- Good knowledge of materials science and Matlab
- Interest in numerical modeling

We offer

Comprehensive supervision and good working atmosphere.

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