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The numerical simulation of manufacturing processes and of their mechanical consequences is of growing interest in industry. However, such simulations need the modeling of couplings between several physical phenomena such as heat transfer, material transformations and solid or fluid mechanics, as well as to be adapted to numerical methodologies.

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The numerical simulation of manufacturing processes and of their mechanical consequences is of growing interest in industry. However, such simulations need the modeling of couplings between several physical phenomena such as heat transfer, material transformations and solid or fluid mechanics, as ...

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efficient thermo-mechanical model 1959 The term $(dH/dT)_{t+t}$ is an effective specific heat which is greatly enlarged over the phase-change temperature interval $T_{sol} < T_{t+t} < T_{liq}$ owing to the evolution of latent heat H_f .

Efficient thermo-mechanical model for solidification processes

Description. The numerical simulation of manufacturing processes and of their mechanical consequences is of growing interest in industry. However, such simulations need the modeling of couplings between several physical phenomena such as heat transfer, material transformations and solid or fluid mechanics, as well as to be adapted to numerical methodologies.

Thermomechanical Industrial Processes: Modeling and

Part III concerns the thermo-mechanical modeling of powder bed processes with a description of the heat input model, classical thermo-mechanical modeling, and part scale modeling. The book serves as an essential reference for engineers and technicians in both industry and academia, performing both research and full-scale production.

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coupled thermo-mechanical problems, focussing in the simulation of solidification processes of industrial

metal parts. The proposed constitutive model is defined by a thermo-

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