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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 phemena such as heat transfer, material transformations and solid or fluid mechanics, as well as to be adapted to numerical methodologies.

Abstract A new, computationally efficient algorithm has been implemented to solve for thermal stresses, strains, and displacements in realistic solidification processes which involve highly nonlinear constitutive relations.
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Thermo-mechanical processing is used in rolling assisted biaxially textured substrates (RABiTS) technique to obtain long length of flexible, biaxially oriented superconductors with smooth textures. Usually Ni, Ni based alloys (Ni-Cr, Ni-W, Ni-V, Ni-Mo, Ni-Cu), ternaries of Cu based alloys and Fe based alloys are used as a substrate in this process.

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