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MODELLING OF STRESSES IN POLYCRYSTALLINE MATERIALS



David Holec
Modelling of stresses in
polycrystalline materials
The origin and redistribution of stresses in NiTi



LAP Lambert Acad. Publ Aug 2010, 2010. Taschenbuch. Condition: Neu. Neuware - The present work deals with stress redistributions and their subsequent influence on the precipitation in NiTi based shape memory alloys. Two mechanisms which may result into the stress redistribution are selected. The calculations based on the linear elasticity theory are performed using three simple models of microstructures with increasing complexity. The obtained results clearly show that the selected mechanisms give rise to the stress redistribution in the microstructures....

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- Authored by David Holec
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