SHAPE-MEMORY ALLOYS

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COURSE AIMS

Let the student learn the basic concepts on shape memory effect and use them in case-studi es aiming applications in different engineering fields (orthodontic, welding, mechanical sollicit ations, ...)

LEARNING OUTCOMES

On completion of this module, the learner will be able to:

- Demonstrate an understanding of the principles and concepts of shape memory and superelasticity effects.
- Apply these concepts in a personal work.
- Assess the effect of different processing conditions.
- Propose the best solution for a specific application.
- Compare this solution with alternative materials.
- Analyze and criticize the proposed solution for a given application.

TEACHING METHODS

Lectures and laboratory work

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