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Spektroskopie s přechodovou mřížkou tenkých vrstev NiTi

NiTi is a shape memory alloy utilized in many applications thanks to its thermal stability, corrosion resistance and biocompatibility. In this work, surface waves propagation in thin epitaxial NiTi films is investigated with transient grating spectroscopy (TGS). It is demonstrated that the thin film thickness limits the amount of observable wave modes at given acoustic wavelength and influences the number of frequency measurements necessary for material characterization, e.g. determining elasticity of the film.

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