Mesure électronique de l'effet mémoire dans les tissus biologiques

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Projet de recherche collaborative dirigé par le Prof. Giuseppe Nardoni (IT Nardoni, Brescia, Italy) et le Dr. Serge Dos Santos
Self-calibration of multiscale hysteresis with memristors in nonlinear time reversal based processes

Abstract

A calibration process of a nonlinear time reversal based ultrasonic device which is associated to the development of a phenomenological characterization of material local elastic properties is proposed. The experimental device is improved and specially scaled in order to access to a wide range of parameters: mechanical properties, ultrasonic parameters (celerity and attenuation) and local geometric data. The experimental set-up is completed by using modern ultrasonic memosducer components aim at describing memristive properties of damaged media.

#Tours #iBrain #UMR1253 #hysteresis #memristors #nonlinearity

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