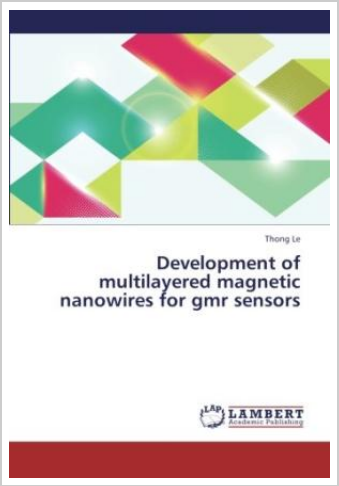

Development of multilayered magnetic nanowires for gmr sensors

By Le, Thong

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | This research describes the development of giant magnetoresistive (GMR) sensors with multilayered magnetic nanowires containing alternating ferromagnetic and nonmagnetic layers. Pulsed electrochemical deposition was used to control the periodic structure of multilayered nanoscale nanowires with preferential crystalline orientation. Co/Cu multilayered magnetic nanowires were grown through polymer nanopore membrane on substrates by lithography-assisted template bonding (LATB) method. Layer thicknesses and crystalline structure were varied and controlled to have an effect on the GMR results. Measurements and results of embedded GMR sensors in a prototype motor are also presented. | Format: Paperback | Language/Sprache: english | 168 pp.

Reviews

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