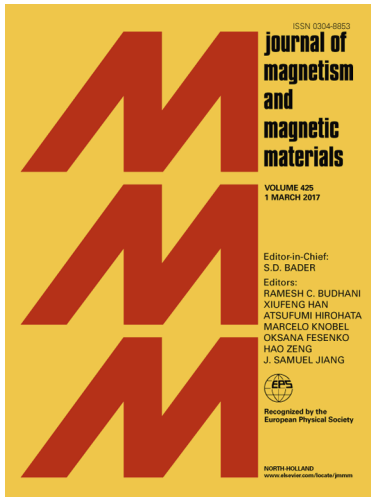

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Improvement of soft magnetic properties for distinctly high Fe content amorphous alloys via longitudinal magnetic field annealing

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Abstract

The effects of longitudinal magnetic field annealing on soft-magnetic properties (SMPs) and magnetic domain structure of $Fe_{(82.6\text{-}85.7)}Si_{(2\text{-}4.9)}B_{(9.2\text{-}11.2)}P_{(1.5\text{-}2.7)}C_{0.8}$ amorphous alloys with a distinctly high Fe content of 93.5-95.5 wt.% for high B_s were investigated. It was found that longitudinal magnetic field annealing could improve soft-magnetic properties (SMPs) of amorphous alloys effectively, except the one with poor thermal