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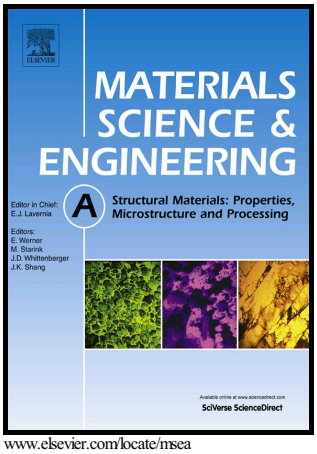

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Effect of cooling rate on damping capacity of Fe-Cr based ferromagnetic metal alloy

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Abstract: The Fe-15Cr-3Mo-0.5Si alloy was treated by furnace cooling, air cooling or water cooling after annealing at 1100 °C for 1 h in vacuum atmosphere. The damping performance of the as-treated alloys was tested with dynamic mechanical thermal analyzer and the effects of different cooling rates on phase, microstructure, coercive force and damping