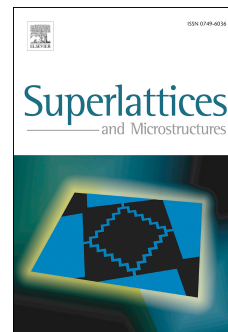


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Experimental and thermodynamic considerations of Mg_2Si coatings deposited by pack cementation process

D. Stathokostopoulos, S.A. Tsipas, D. Chaliampalias, E. Pavlidou, E. Hatzikraniotis, K.M. Paraskevopoulos, G. Vourlias



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Research highlights

- Mg_2Si was formed, using a novel deposition method which is pack cementation.
- Thermodynamic calculations were performed in order to optimize the experimental conditions for the deposition. These calculations were verified experimentally.
- Deposition time, activator and donor concentration were found to influence only the thickness of the coatings and not its chemical structure.
- In every case pure Mg_2Si was formed in the as deposited coatings.

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