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TMS 2020

149th Annual Meeting & Exhibition

February 23-27, 2020 • San Diego, California, USA



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Materials Design

Metastable Phases and Phase Equilibria: Towards Designing the Next Generation of Alloys

The demand for materials meeting higher requirements has driven the development of novel alloys over the past decades. Some of the examples include metastable austenite in TRIP, TWIP and Q&P steels, beta-stabilised titanium alloys, gamma double prime precipitates in nickel superalloys, high entropy alloys, quasicrystals, and spinodal decomposition during ageing of aluminium alloys. The foundation of all these technological leaps is in the design and control of metastable phases, where outstanding properties are achieved through a combination of carefully tailored chemical composition and thermal processing. The symposium aims at providing a forum for discussion towards designing the next generation of alloys.

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