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Effects of Microstructural Parameters on Creep of Nickel– Base Superalloy Single Crystals

NASA Technical Reports Server (NTRS), et al., Rebecca A. MacKay Bibliogov, United States, 2013. Paperback. Condition: New. Language: English. Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Microstructure-sensitive creep models have been developed for Ni-base superalloy single crystals. Creep rupture testing was conducted on fourteen single crystal alloys at two applied stress levels at each of two temperatures, 982 and 1093 C. The variation in creep lives among the different alloys could be explained with regression models containing relatively few microstructural parameters. At 982 C, gamma-gamma prime lattice mismatch,...

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- Authored by Rebecca a MacKay
- Released at 2013



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