

1. Record Nr.	UNINA9910476899503321
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Titolo	Untersuchung und Modellierung des Haltezeiteinflusses auf die zyklische Entfestigung ferritisch-martensitischer Stähle
Pubbl/distr/stampa	Karlsruhe, : KIT Scientific Publishing, 2021
ISBN	1000085512
Descrizione fisica	1 electronic resource (224 p.)
Collana	Schriftenreihe des Instituts für Angewandte Materialien, Karlsruher Institut für Technologie
Soggetti	Mechanical engineering & materials
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Ferritic-martensitic steels are established structural materials for high-temperature applications. However, these steels show characteristic softening under cyclic loading. Based on a comprehensive mechanical characterization, a coupled viscoplastic model was established to describe cyclic softening and lifetime of ferritic-martensitic steels under combined creep-fatigue loading.