

Fatigue in Railway Infrastructure (Woodhead Publishing in Mechanical Engineering)



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Fatigue is a major issue affecting safety and quality of service in the railway industry. This book reviews key aspects of this important subject. It begins by providing an overview of the subject, discussing fatigue at the wheel-rail interface and in other aspects of infrastructure. It then considers fatigue in railway and tramway track, looking at causes of potential failure in such areas as rails and fixings as well as sleepers. It also reviews failure points in structures such as embankments and cuttings. The book analyses fatigue in railway bridges, looking in particular at masonry arch bridges as well as metal and concrete bridges. Two final chapters review safety and reliability issues affecting escalators and lifts.

Fatigue in railway infrastructure is a helpful reference for those in the railway industry responsible for infrastructure maintenance as well as those researching this important subject.

- Provides a concise review of fatigue in the railway infrastructure
- Examines the causes of potential failure in rails, fixings and sleepers
- Analyses fatigue in railway bridges including masonry arch, metal and concrete structures

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