

# Case hardened steels - microstructural and residual stress effects : proceedings of the symposium

## The Society - Conference Proceedings

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- Notes: Includes bibliographies and indexes.
- This edition was published in 1984

Tags: #IAM

Hydrogen

Lang Lifetime, Cyclic Deformation and Damage Behaviour of MAR-M247 LC

under Thermo-Mechanical Fatigue Loading with  $0^\circ$ ,  $180^\circ$ ,  $-90^\circ$  and  $+90^\circ$  Phase Shift between Strain and Temperature Procedia Engineering 74 2014 p.

## Effect of Residual Stresses on Microstructural Evolution Due to Rolling Contact Fatigue

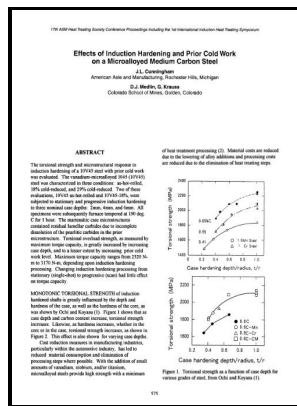
A positive output from this work, however, is that gears from both manufacturing routes exhibit similar bulk residual stress distributions.

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These areas appear white under an optical microscope, due to their low-etching response to the etchant. Schulze: Charakterisierung und Prüfung von Mikrobauteilen. The stress distributions are similar for both routes; no significant difference is observed.

## IAM

Failure resulted in fracture of the bolts, and was a response to the material and process specification which produced a steel microstructure highly susceptible to hydrogen-assisted stress cracking.



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