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Effects of the case hardening properties on the contact fatigue of a wind turbine gear pair

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- The effects of the compressive and tensile residual stress distributions on the material exposure with and without considering the case hardening are discussed.
- The effect of the effective case depth on the material exposure considering residual stress distribution is studied.
- The effects of the surface-core hardness discrepancy on the material exposure considering residual stress distribution are concluded.

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