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Use of non-destructive testing methods in a new one-specimen test strategy for the estimation of fatigue data

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Use of non-destructive testing methods in a new one-specimen test strategy for the estimation of fatigue data*P. Starke^{1)*}, H. Wu¹⁾*

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Highlights

- The SteBLife approach is a new short-time calculation method, which allows to provide S-N-data on the basis of a small number of fatigue tests.
- It is shown how the potential of non-destructive testing methods, the digitalisation of the measurement techniques as well as signal processing can be combined in order to reach a gain in information concerning the fatigue behaviour of metallic materials.
- For the first investigations in accordance to the new SteBLife approach, temperature measurements by means of an infrared camera were used.

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