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Vol.10, No.14 Thermal Cycling Effects on the Fatigue 1349 temperature on low cycle (or high strain) fatigue
strength of materials and production of the appropriate $1 + N$ curves.

Thermal Cycling Effects on the Fatigue Behaviour of Low

low-cycle thermal fatigue damage accumulation. An In-depth discussion of these and alternative approaches
will be presented in a later section. First, how-ever, It Is advisable to present a brief description of the thermal
fatigue process. Fatigue In metals Is the consequence of repeated reversals of inelastic deformation.

Low-Cycle Thermal Fatigue - NASA

THERMAL FATIGUE OF STAINLESS STEELS Bystrianský J.1, Siegl J. 2, Haušild P. , Strnadel B.3
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THERMAL FATIGUE OF STAINLESS STEELS - ams.tuke.sk

THERMAL FATIGUE OF METALS Cand. tech. sc. YU. F. BALANDIN The term thermal fatigue (ThF) refers
to the changes in structure and shape, and also fracture of materials due to cyclic heating and cooling. ThF is
often the decisive cause of damage or failure of heavy-duty parts or structures. The

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fatigue (LCF) and thermal mechanical fatigue (TMF). The principal distinction between HCF and LCF is the
region of the stress strain curve where the repetitive application of load (and resultant deformation or strain)
is taking place.

Understanding Fatigue - ASME

THERMAL FATIGUE OF MATERIALS AND COMPONENTS A symposium sponsored by ASTM Committee
E-9 on Thermal Fatigue of Materials and Components AMERICAN SOCIETY FOR ... Description of a
Computerized Method for Predicting Thermal Fatigue Life of Metals" D. A. SPERA AND E. C. COX 69

THERMAL FATIGUE OF - ASTM International

CALCULATION OF THERMAL-FATIGUE LIFE BASED ON ACCUMULATED CREEP DAMAGE by David A.
Spera Lewis Research Center ... thermal-fatigue cracking in a high-temperature component such as a turbine
blade or . disk. Thermal fatigue is defined as the cracking of a material primarily by repeated

OF THERMAL-FATIGUE LIFE BASED - NASA

applied stress. High-cycle fatigue tests are usually carried out for 10^7 cycles and sometimes $5 \cdot 10^8$ cycles for
nonferrous metals. Although the applied stress is low enough to be elastic, plastic deformation can take place
at the crack tip. High-cycle fatigue data are usually presented as a plot of stress, S , versus the number of cycles to

failure, N.

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