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He holds a doctoral degree from

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EPFL in the domain of fatigue of tubular bridges and is a specialist for steel and steel-concrete composite structures. He is a member of the technical committee TC6 - Fatigue of ECCS.

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This volume addresses the specific subject of fatigue, a subject not familiar to many engineers, but still relevant for proper and good design of numerous steel structures. It



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explains all issues related to the subject: Basis of fatigue design, reliability and various verification formats, determination of stresses and stress ranges, fatigue ...

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Luis Borges is a structural engineer at BG Consulting Engineers Ltd., Lausanne. He holds a doctoral degree from EPFL in the domain of fatigue of tubular bridges and is a specialist for steel and steel-concrete

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This document is essentially

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meant to cover aspects related to the fatigue design and analysis of welded steel and steel-concrete composite bridges. It has been the intention of the authors to – wherever is judged necessary and feasible – present and highlight the background of various

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18 ...

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## COMPOSITE STRUCTURES 3

Course Content. Fatigue of steel members and connections can lead to damage to structures and potentially catastrophic failure. Fatigue failure can often be hidden from view and needs careful attention both in the

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design stage and fabrication stage to avoid issues. Whether it is in the mining or commercial building sectors, fatigue plays a part. For example, it has been stated that more than 75 percent of failures in welded components are due to fatigue.

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Fatigue Design of Steel Structures  
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Fatigue strength (structural steel)  
In the verification expression,  $\Delta\sigma_c$   
is the reference value of fatigue  
strength at  $2 \times 10^6$  cycles, which  
is numerically the same as the

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relevant detail category according  
to BS EN 1993-1-9 Tables 8.1 to  
8.10.

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The use of fatigue design rules  
offers the most effective means

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of avoiding fatigue failures in welded structures. This paper outlines the basis of current rules and how they are applied in different specifications, including consideration of residual stresses, size effect, material, welding process and environment.

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Fatigue design rules for welded structures (January 2000 ...

This paper focuses on the balance fatigue design of these two parts in a cast steel node joint using fracture mechanics and FEM. The defects in castings are simulated

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by cracks conservatively. The final crack size is decided by the minimum of 90% of the wall thickness and the value deduced by fracture toughness.

Balance Fatigue Design of Cast  
Steel Nodes in Tubular ...

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The fatigue behavior of a fabricated steel engineering structure is significantly affected by the presence of pre-existing cracks or crack-like discontinuities. Among other things, it means that there is little or no time during the life of the



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structure that is taken up with  
"initiating" cracks.

National Steel Bridge Alliance -

AISC

This volume addresses the  
specific subject of fatigue, a  
subject not familiar to many

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Structures, but still relevant for proper and good design of numerous steel structures. It explains all issues related to the subject: Basis of fatigue design, reliability and various verification formats, determination of stresses and stress ranges,

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fatigue strength, application  
range and limitations.

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In fatigue design of primary  
composite structures with an

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important load bearing capacity, the knowledge of the fatigue behaviour is not only required at room temperature and for virgin material, but often, the fatigue behaviour has to be known as well under more harsh environmental conditions or in

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case of pre-damage (notches,  
preexisting impact damage).

Fatigue Design - an overview |  
ScienceDirect Topics  
Differences in fatigue design  
between as welded and UPT joints  
were discussed. Results indicate

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that material strength has effect, to a certain extent, on the fatigue performance of UPT welded joints. Contrast tests show that slope  $m$  values (6.3-23) of S - N curves of UPT welded joints are much bigger than 3.0 (recommended by the international institute of

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