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can cause difficulties to
estimate correctly the
load effects on the
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structure components.
In the case of large
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components in
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decks, an accurate
estimation of the load
effects in its welded
details is often difficult
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In the current study a method to determine the location of fracture initiation for non-load carrying fillet welds based on continuous geometry measurements is proposed.

Measurements and weld quality evaluation were carried out on welded specimens using the Winteria® software qWeld. One hundred nineteen specimens were

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produced, scanned,
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For the analysis and design of critical components, fatigue life prediction and reliability assessment are still challenging tasks despite extensive research during the past several decades (Mi et al. ... Reliability analysis for fatigue damage of railway welded bogies using

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This book provides a basis for the design and analysis of welded components that are subjected to fluctuating forces, to avoid failure by fatigue. It is also a valuable resource for those on boards or commissions who are establishing fatigue design codes. For maximum benefit, readers should already

Recommendations

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The notch stress approach for fatigue assessment of welded joints is based on the highest elastic stress at the weld toe or root. In order to avoid arbitrary or infinite stress results, a rounded shape with a reference radius instead of the actual sharp toe or root is usually assumed.

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The advantages of welding are numerous over that of mechanical linkages; however, the fatigue life of a welded

component can be significantly reduced over that of un-welded component made of the same steel. Figure 4 shows a comparison of the S-N fatigue life of an un-welded

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member, a stress
raising notch and a
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A welded structure may not have greater fatigue resistance than

an unwelded plate so this represents an upper bound on the fatigue behaviour. The

curves are straight lines, on a log-log scale. Below 10⁷ cycles the slope of these lines is 3, the same slope

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that is found in crack
growth data.

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