

New Issue Alert 13 February 2025 

Dear Reader,

We are pleased to deliver your requested table of contents alert for **Welding in the World. Volume 69, Issue 3 is now available online.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |
| --- |
| In this issue |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
|  |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Applicability of fatigue design recommendations for thin plate welded joints by assessment of fatigue crack initiation and propagation life](https://links.springernature.com/f/a/wZA6c_b91oMh4WEexl3OuQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIsyXOGDrc-boFCmthuJA2fomY5WYi6XpI1NO_h0qXD73l9N_fR9GPwzcgNSc0a_RehCKfkrZ1DpNljz6h06yAEV7iqOWFt5CBZqgJCY23TUXzvJxXRWK-HhnoFEcAvVRE0m_21bjO1lrEL9yu6Jc5Fl-V8qPRX0gNN7gI8E4ZochO1heMnUaBVCFyEX68YI3MIMBchPlr8RQ5v8O4dyiasWCm8aMOjAhHkdxdkKsuVF-5t6rq_K1BFok6fA2FV6Xtg~~) |
| Sohei Kanna, Masahiro Takanashi |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/wZA6c_b91oMh4WEexl3OuQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIsyXOGDrc-boFCmthuJA2fomY5WYi6XpI1NO_h0qXD73l9N_fR9GPwzcgNSc0a_RehCKfkrZ1DpNljz6h06yAEV7iqOWFt5CBZqgJCY23TUXzvJxXRWK-HhnoFEcAvVRE0m_21bjO1lrEL9yu6Jc5Fl-V8qPRX0gNN7gI8E4ZochO1heMnUaBVCFyEX68YI3MIMBchPlr8RQ5v8O4dyiasWCm8aMOjAhHkdxdkKsuVF-5t6rq_K1BFok6fA2FV6Xtg~~)    [**» Full text HTML**](https://links.springernature.com/f/a/wZA6c_b91oMh4WEexl3OuQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIsyXOGDrc-boFCmthuJA2fomY5WYi6XpI1NO_h0qXD73l9N_fR9GPwzcgNSc0a_RehCKfkrZ1DpNljz6h06yAEV7iqOWFt5CBZqgJCY23TUXzvJxXRWK-HhnoFEcAvVRE0m_21bjO1lrEL9yu6Jc5Fl-V8qPRX0gNN7gI8E4ZochO1heMnUaBVCFyEX68YI3MIMBchPlr8RQ5v8O4dyiasWCm8aMOjAhHkdxdkKsuVF-5t6rq_K1BFok6fA2FV6Xtg~~) [**» Full text PDF**](https://links.springernature.com/f/a/BN1gaN7D1-dB-mIPew8WNA~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L_Xayg449mG5FpvezsBxKsXApkpLjGX7RknJgUUPpR0i1G4W_uhvc0ufzqRlxyqrgjUfp1Ahuhto5dzori4z4y2NQ4sqiU7V_S94yoBprW6ekhXVPULmApiZs0EMFdKxeIIqr0__AS6ZUB8wTz2aylFym2dYiY_GerKyTD3Sne8BqstSygpBdsLlRlRH2zXLkHyBOOj0ojR0UPJmbgUIQr-DK54lffkPRhmXtqZD5RYXyPOQfPxQckR9UOZv31W_Kg~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Open Access |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Fatigue assessment of welded pure copper hairpins using notch stress concept](https://links.springernature.com/f/a/3cJOY_ZFNCN9AEj072JHDw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIjMrVml5p128Z2RXZQhvee9uAk8fjuMvpJ42g9VXYO68WdGWvK3CcQ7NDI3NmGURj7V7b5mC1bsEXM7VASHWItj1VvCqe6SS68uh2LwZ7_KBjAKdDXI5kov29eh5SVPxemVwHvGYUyxZJQwYfYTitEBj9lPZ8t_U4luXMfpSZLF3DoS40iVc2auWraihr8YJzeceo1CEYfO4ewJhyyQO6OiI_teHMr2z1hrPk2umHEwIACiMCEHkagsla6Ya-78yiA~~) |
| Jesse Ceruso, Max Mannsperger, Jens Mischko, Alfons Esderts |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/3cJOY_ZFNCN9AEj072JHDw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIjMrVml5p128Z2RXZQhvee9uAk8fjuMvpJ42g9VXYO68WdGWvK3CcQ7NDI3NmGURj7V7b5mC1bsEXM7VASHWItj1VvCqe6SS68uh2LwZ7_KBjAKdDXI5kov29eh5SVPxemVwHvGYUyxZJQwYfYTitEBj9lPZ8t_U4luXMfpSZLF3DoS40iVc2auWraihr8YJzeceo1CEYfO4ewJhyyQO6OiI_teHMr2z1hrPk2umHEwIACiMCEHkagsla6Ya-78yiA~~)    [**» Full text HTML**](https://links.springernature.com/f/a/3cJOY_ZFNCN9AEj072JHDw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIjMrVml5p128Z2RXZQhvee9uAk8fjuMvpJ42g9VXYO68WdGWvK3CcQ7NDI3NmGURj7V7b5mC1bsEXM7VASHWItj1VvCqe6SS68uh2LwZ7_KBjAKdDXI5kov29eh5SVPxemVwHvGYUyxZJQwYfYTitEBj9lPZ8t_U4luXMfpSZLF3DoS40iVc2auWraihr8YJzeceo1CEYfO4ewJhyyQO6OiI_teHMr2z1hrPk2umHEwIACiMCEHkagsla6Ya-78yiA~~) [**» Full text PDF**](https://links.springernature.com/f/a/LvVZ9SQItimwnmRAvh0lHw~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5Lw1x80lJ4EsRStcWQ-TpXE2HQm8-Y3jMSJ6y29v3t1h00iDNWps0xZiTnwwN8OGPZMbnglsfcfx23dPa4iL9fk6Y02XTe0JL7iMlkZ6L3a817Hto2g8Z9YC0EZ0SDt4FBZ4JJmBMsudVdvcr-vAE1JX5SGt4t_VzSziwUJlyh6OlsAS1JAAnoUfksG2RhTrLIiHMFnMhQtrIXrqH_aDyH_383owDUVaVDN20wOIl_J2_behTH71MxvCKyDHEVRRS0w~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
|  |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Results of the JaCo project: fatigue strength of robot-welded tubular joints for offshore wind energy converters](https://links.springernature.com/f/a/n3zjFHKpai_pI31QYn1CLw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIhhggHa1xu4XQzpXJ8NsjEcNgDiYQLlRo6KLA0M7YLoE6NlRgYzSJG9985mV_r44qLSFyytt--rxf1oD4bd0Z7gAhmSK-5qn0DixFH5-aqhrI90pIp7qR0iYqIQsn_W79e1t3utZfu52eDgUWMNeh8knko3UkhwDJWiISx4fOZor969umz0xEgwvrz9tVrO_Y0JQUkev3Xc53pmScf15yJgU5Rxno1xUveX9P0dtB8noQSYe7Q8HTtK-r3HpHazE4A~~) |
| P. Thibaux, J. Van Wittenberghe, W. Fricke, M. Thiele, L. P. Nielsen, F. Conti |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/n3zjFHKpai_pI31QYn1CLw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIhhggHa1xu4XQzpXJ8NsjEcNgDiYQLlRo6KLA0M7YLoE6NlRgYzSJG9985mV_r44qLSFyytt--rxf1oD4bd0Z7gAhmSK-5qn0DixFH5-aqhrI90pIp7qR0iYqIQsn_W79e1t3utZfu52eDgUWMNeh8knko3UkhwDJWiISx4fOZor969umz0xEgwvrz9tVrO_Y0JQUkev3Xc53pmScf15yJgU5Rxno1xUveX9P0dtB8noQSYe7Q8HTtK-r3HpHazE4A~~)    [**» Full text HTML**](https://links.springernature.com/f/a/n3zjFHKpai_pI31QYn1CLw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIhhggHa1xu4XQzpXJ8NsjEcNgDiYQLlRo6KLA0M7YLoE6NlRgYzSJG9985mV_r44qLSFyytt--rxf1oD4bd0Z7gAhmSK-5qn0DixFH5-aqhrI90pIp7qR0iYqIQsn_W79e1t3utZfu52eDgUWMNeh8knko3UkhwDJWiISx4fOZor969umz0xEgwvrz9tVrO_Y0JQUkev3Xc53pmScf15yJgU5Rxno1xUveX9P0dtB8noQSYe7Q8HTtK-r3HpHazE4A~~) [**» Full text PDF**](https://links.springernature.com/f/a/02SHSgzm4uD2MLmtdXc8gQ~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L5DHGtzbnx5PhTciQedD1Uo1iMEkBswyyYz9L5cW01PCAovC0Fo2EMcEzzc2tVCamDTZ3bHxOgHG4ROHUCmjLrlFkFZK7HL9LSPLNIuvzR4xzOpyk1FgpGFJi9BrfoZ4YzSjoSkia7lkfRK7kFg-GTdUHwOLIvYCZ3pz8aCLIkRub6_80dO3EGhxS_8JlQzs0PYAIQkgUvjVMIznrKx3eGey1FV4z1IVd8umq0wu_6RsWzycIG4SDo9lcHDrBLjwaA~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
|  |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [The influence of weld start reentrant angle on fatigue life determined through analysis and physical testing](https://links.springernature.com/f/a/7WfNHei-u_u75TYWu3hegQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIoGANhGB4DUztlD-TGWy2fHSU2rIQBKli9UgUemIqI0NxkBC4yHCUGqEMLHMzHP-RvUpG1PqnACQMORLxVFOLqqpIOA_Jlv2qEa3-qHgWAw7zYW8RiUcSvHJPCq8ChJRN4RjfBAULzlFK8O5KEbEId3dkF6AxjQvzvDkzl8XoMOJzxmgnxUzlzaMJybMPfIMBlkKl7jI1Rl6d_0Yo81ikPAVstuMWAWNUw1wiePaM6WD53jmlEZPpPUeeVqsTVqf5Q~~) |
| D. Bradley Cook, Christy Lee, Donald Stickel |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/7WfNHei-u_u75TYWu3hegQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIoGANhGB4DUztlD-TGWy2fHSU2rIQBKli9UgUemIqI0NxkBC4yHCUGqEMLHMzHP-RvUpG1PqnACQMORLxVFOLqqpIOA_Jlv2qEa3-qHgWAw7zYW8RiUcSvHJPCq8ChJRN4RjfBAULzlFK8O5KEbEId3dkF6AxjQvzvDkzl8XoMOJzxmgnxUzlzaMJybMPfIMBlkKl7jI1Rl6d_0Yo81ikPAVstuMWAWNUw1wiePaM6WD53jmlEZPpPUeeVqsTVqf5Q~~)    [**» Full text HTML**](https://links.springernature.com/f/a/7WfNHei-u_u75TYWu3hegQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIoGANhGB4DUztlD-TGWy2fHSU2rIQBKli9UgUemIqI0NxkBC4yHCUGqEMLHMzHP-RvUpG1PqnACQMORLxVFOLqqpIOA_Jlv2qEa3-qHgWAw7zYW8RiUcSvHJPCq8ChJRN4RjfBAULzlFK8O5KEbEId3dkF6AxjQvzvDkzl8XoMOJzxmgnxUzlzaMJybMPfIMBlkKl7jI1Rl6d_0Yo81ikPAVstuMWAWNUw1wiePaM6WD53jmlEZPpPUeeVqsTVqf5Q~~) [**» Full text PDF**](https://links.springernature.com/f/a/agojeg96Bx4vZz7TE_wEOg~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L9Jy77uo2RiUIFj7bpxUjG7kLTmVt56BP_h4ME3bZI3VZ3AIbisLK8y6KlHSd9F4dj5difsNT26uDRGOerel8-px2BcCZR00He-PBxqiLiHhBr6q2AU2-RGum0Ayy_A06AJ4lISj-eZoEfcXWa7d3adt-f0bLLvDBzR9D-fFlsZbyu4QdRKmyv54495x0fVh6DkXeQ4VwIaRZIvxQJEbHHIbKGcEPqvnWmMf1OisLaWquxD-JTCtxpKspnlGl2KVEg~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Open Access |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Mechanized HFMI for improved fatigue life in complex weld shapes](https://links.springernature.com/f/a/DeQN_E0D09Ymq7pimwtE4A~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIhj0Hkc2c4xP5w4y1ZqN08q0JWfVD_FTXlBK01LR-XmIWbAttwiNjNC45xKGCAXMFA0PMCtBpqyC_Uq_V_Ch7_Ul5va_GUh48a-lS7NC4ZQHP9X_iVNi3etCWZnN_-v7FaFpAvPH1-4DWfxlkmp1211pW04UTC213IcBKolMLCtW3w87h3HS4maTcpfk24IY0z8XgcYqFomra1-69dFJbuETr7a9T684aghtpIVyr50jxjnlPK2MVwwurohh-KuEzg~~) |
| T. Stenberg, G. Hultgren, Y. Banno, Z. Barsoum |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/DeQN_E0D09Ymq7pimwtE4A~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIhj0Hkc2c4xP5w4y1ZqN08q0JWfVD_FTXlBK01LR-XmIWbAttwiNjNC45xKGCAXMFA0PMCtBpqyC_Uq_V_Ch7_Ul5va_GUh48a-lS7NC4ZQHP9X_iVNi3etCWZnN_-v7FaFpAvPH1-4DWfxlkmp1211pW04UTC213IcBKolMLCtW3w87h3HS4maTcpfk24IY0z8XgcYqFomra1-69dFJbuETr7a9T684aghtpIVyr50jxjnlPK2MVwwurohh-KuEzg~~)    [**» Full text HTML**](https://links.springernature.com/f/a/DeQN_E0D09Ymq7pimwtE4A~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIhj0Hkc2c4xP5w4y1ZqN08q0JWfVD_FTXlBK01LR-XmIWbAttwiNjNC45xKGCAXMFA0PMCtBpqyC_Uq_V_Ch7_Ul5va_GUh48a-lS7NC4ZQHP9X_iVNi3etCWZnN_-v7FaFpAvPH1-4DWfxlkmp1211pW04UTC213IcBKolMLCtW3w87h3HS4maTcpfk24IY0z8XgcYqFomra1-69dFJbuETr7a9T684aghtpIVyr50jxjnlPK2MVwwurohh-KuEzg~~) [**» Full text PDF**](https://links.springernature.com/f/a/UskCroonZq_b3nIuG9Zdbw~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5LxQc2rB2ks_afQjhGYh1oYc7byhV6a_BWlD70DZHSsZkgHDt2gWkmKy8FmXFykg88H_fqYcmvg5nOA5MjEaKWxRPs0u2waDAeeMexw5osGCMMio0XHIFukTVv4vl_foINlwJKc5Ulo_6S5jMcphPSL1xliX0Bt3wvjLky6Myt9PXuagODSD8N6i3iPcmvBxjcf3jQQMgxwlcifhajRFtevGv1BiS9yfK-2271yzupnStqwWdJZKZu12UKo-4_ueOfA~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
|  |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Fatigue behavior of welded joints of a Ni–Fe-based superalloy](https://links.springernature.com/f/a/1mKZDunt5B8VDBkZw6iCKg~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIlR0tL3DYZLcxpfwK9W9FTVKgjTn5t_xLkmhX8vSISSsqDIYFUj53swQfGO9xixkyVl5fgY6nb5nncoeiiY_UllWkAEZ8rLWqdDt_ETupzUzuKgChpsBKbCnPhQELtzcseKgVjCYp6Z5KXZNg0LPkfwbG4vq_1uh2ms_PY7ZmswlMv14fb1R-ZpZi2HsmZ2-XxKZJ9wSxyJRC8EHWdWedK4RK6-KOq3ZxlLNRqKjQ9tSr3KVtcsJd4IHj0N2lsEQcQ~~) |
| Xin Huang, Hongyu Qi, Shaolin Li, Xiaoguang Yang, Duoqi Shi |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/1mKZDunt5B8VDBkZw6iCKg~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIlR0tL3DYZLcxpfwK9W9FTVKgjTn5t_xLkmhX8vSISSsqDIYFUj53swQfGO9xixkyVl5fgY6nb5nncoeiiY_UllWkAEZ8rLWqdDt_ETupzUzuKgChpsBKbCnPhQELtzcseKgVjCYp6Z5KXZNg0LPkfwbG4vq_1uh2ms_PY7ZmswlMv14fb1R-ZpZi2HsmZ2-XxKZJ9wSxyJRC8EHWdWedK4RK6-KOq3ZxlLNRqKjQ9tSr3KVtcsJd4IHj0N2lsEQcQ~~)    [**» Full text HTML**](https://links.springernature.com/f/a/1mKZDunt5B8VDBkZw6iCKg~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIlR0tL3DYZLcxpfwK9W9FTVKgjTn5t_xLkmhX8vSISSsqDIYFUj53swQfGO9xixkyVl5fgY6nb5nncoeiiY_UllWkAEZ8rLWqdDt_ETupzUzuKgChpsBKbCnPhQELtzcseKgVjCYp6Z5KXZNg0LPkfwbG4vq_1uh2ms_PY7ZmswlMv14fb1R-ZpZi2HsmZ2-XxKZJ9wSxyJRC8EHWdWedK4RK6-KOq3ZxlLNRqKjQ9tSr3KVtcsJd4IHj0N2lsEQcQ~~) [**» Full text PDF**](https://links.springernature.com/f/a/FGP0kjssTAZMJUEMbok1yQ~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L1nRQgVV8jBj7u3OWig8XKb1SqGdpyyTkdvvNQmBNjg-N3HX6SBavwM7p5pmz3WQfSTptDbQ-MHsWvdeu103LWwe8365Wac7M1_qyK_Xw_s4iHIi7WfNB6qdo2bnvbyfSEj63MU9oUYx9h6Nj4TiGctdwZWivkk1_Z_ouHemix7Y80BT6wexsf-J1QT4qAMA3w81PHBSa5zKhUOpaQUfsP483EqBTZIX6CBTEg_CCyyXYYAxwdl05ILfrN6TujQa6A~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Open Access |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Influence of pores on the fatigue life of welded joints and investigation of acceptance criteria defined in standard documents](https://links.springernature.com/f/a/PXMtgenvJ_m3etQMkyCzQA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIhLwrjE094Ixrmc7gZ98YSGvSK4pf2ABf9y2XYoKbdjjOOFWrVo82buDKluxdt5syXVbOtMb-BHwp7m2eRGZ3G13MVmWWVk-B3wtG7CLcslk5V5dQrrTumIXd_6qX2Qb0idd0I4Utvc84tKUooCPqh9WpvdoNYNTS2PdkAtBSEuQA2DDgmkhHyAkkEuB-8i3S-pHoXJYHs4VvZGCyuw8YMj1o4c0fNyiStQbIW-T_bKgyMhWCgLm2s_s04Fza78TRQ~~) |
| Matthias Jung, René Fenzl |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/PXMtgenvJ_m3etQMkyCzQA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIhLwrjE094Ixrmc7gZ98YSGvSK4pf2ABf9y2XYoKbdjjOOFWrVo82buDKluxdt5syXVbOtMb-BHwp7m2eRGZ3G13MVmWWVk-B3wtG7CLcslk5V5dQrrTumIXd_6qX2Qb0idd0I4Utvc84tKUooCPqh9WpvdoNYNTS2PdkAtBSEuQA2DDgmkhHyAkkEuB-8i3S-pHoXJYHs4VvZGCyuw8YMj1o4c0fNyiStQbIW-T_bKgyMhWCgLm2s_s04Fza78TRQ~~)    [**» Full text HTML**](https://links.springernature.com/f/a/PXMtgenvJ_m3etQMkyCzQA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIhLwrjE094Ixrmc7gZ98YSGvSK4pf2ABf9y2XYoKbdjjOOFWrVo82buDKluxdt5syXVbOtMb-BHwp7m2eRGZ3G13MVmWWVk-B3wtG7CLcslk5V5dQrrTumIXd_6qX2Qb0idd0I4Utvc84tKUooCPqh9WpvdoNYNTS2PdkAtBSEuQA2DDgmkhHyAkkEuB-8i3S-pHoXJYHs4VvZGCyuw8YMj1o4c0fNyiStQbIW-T_bKgyMhWCgLm2s_s04Fza78TRQ~~) [**» Full text PDF**](https://links.springernature.com/f/a/3V0wIso-Z7klciPmWG4M1g~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L0l0Cn_bAhCK5SgxhxZLmuLDGExaMjLyZrJSq4q7TDNDA1jRVoO01Opf_KUSE7Y2UneTI5GWR6ypizu-u5CmjcrNeXVP0QN0jEZZM1I-awquAgkm2rnSWW03e8vRojsY1heFlDm6hkzi6wGSgm_nHRkEieYyBwYVV9szQdI-V53kFPUOtKajo0XiUpH8dfKmrhrTwTTc5OIo5trTcYKyqtEb2c0BDm3FohczHVLZ5n1Ts09kKHV-WymaYtebO6B3eA~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Open Access |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Fatigue assessment of as-welded and HFMI-treated high-strength steel joints under variable amplitude loading using local approaches](https://links.springernature.com/f/a/FwnwwEkvuOWRuo5r5e_aaA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIqarVSLr_Ha0fomnPR9c2fw5WezVlVbOWIoozsCWyvVfVD7FUN9U8nfD13l2E6mVcehXCFLprofaRGYXuEKNQ34uEO18701q4yvXC1As-4I0cRBogQNHpSVD-9NUfJItQuKigYK3xQltuVJMI3pCDnHWq540Lg6PnCWFdw3Sq-99b4OyejL_ZMCpyZaw4HBi3q74s57W8RvvAF1fqBrZYRwnVfG9gaBwevtLYiLlaqSILV3zDfKyrdW3XTAopAfGeA~~) |
| Antti Ahola, Martin Leitner, Kiia Grönlund, Peter Brunnhofer, Christian Buzzi, Masoud Moshtaghi, Timo Björk |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/FwnwwEkvuOWRuo5r5e_aaA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIqarVSLr_Ha0fomnPR9c2fw5WezVlVbOWIoozsCWyvVfVD7FUN9U8nfD13l2E6mVcehXCFLprofaRGYXuEKNQ34uEO18701q4yvXC1As-4I0cRBogQNHpSVD-9NUfJItQuKigYK3xQltuVJMI3pCDnHWq540Lg6PnCWFdw3Sq-99b4OyejL_ZMCpyZaw4HBi3q74s57W8RvvAF1fqBrZYRwnVfG9gaBwevtLYiLlaqSILV3zDfKyrdW3XTAopAfGeA~~)    [**» Full text HTML**](https://links.springernature.com/f/a/FwnwwEkvuOWRuo5r5e_aaA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIqarVSLr_Ha0fomnPR9c2fw5WezVlVbOWIoozsCWyvVfVD7FUN9U8nfD13l2E6mVcehXCFLprofaRGYXuEKNQ34uEO18701q4yvXC1As-4I0cRBogQNHpSVD-9NUfJItQuKigYK3xQltuVJMI3pCDnHWq540Lg6PnCWFdw3Sq-99b4OyejL_ZMCpyZaw4HBi3q74s57W8RvvAF1fqBrZYRwnVfG9gaBwevtLYiLlaqSILV3zDfKyrdW3XTAopAfGeA~~) [**» Full text PDF**](https://links.springernature.com/f/a/JGSKvo3cBbRkn5xLXBpirg~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L79hTUqwtNag50ZOxUJ2VWjjD6ighJzFhduYyaLI23sOq2RfK3hWTIXvalKZCALGIkIVEA6EDJt_QKjhISLRP1bbv2seaW8-kPJfn-bRqwZhxSZ3qffAqbJ4MpbAOujfqRsdCje-iXglZ1J0E0RYDvefymM_l4fkB2-LFCkvrNsktVk0swpjr8-h4xnOe6LZknTKnSMs5HrEKdgV2OtMot4TxOZNoiL7xaLWEfvWrPMGlpP8EngNctq5fdykjcxU_A~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper (unsolicited) |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
|  |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Study on the improvement method of Goodman-Smith diagrams based on IIW standard and unilateral tolerance coefficient method](https://links.springernature.com/f/a/ExWqtRvoHEByO3GVAkmWsQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4QKH0ltiPsxapmdyDj6SwIxq0UWZqySniA55viV00yJcNLQkRHBN64m2LDciFkesSW0RJ5s8poobBfHaaMS0LBBGUglTaWVU6Pr2AkbsKsEOBPI3PBSvadHycgrVKGyVadVBLJ4-cg8VpRxmc-XxFf9jNtpfpbc16M7K0NPBq2DC4WCjtzyBQld8lE8mzDaq8Sp1cFwUHE3n6CEK_Fyw43_SqalirYcZ2iLBAzQr0g7uGn72vkbVA6EsIPlBUrRnHw~~) |
| Jiayu Liu, Yuedong Wang, Jiaqi Zhang, Yuhan Tang, Qi Dong, Letian Fan |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/ExWqtRvoHEByO3GVAkmWsQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4QKH0ltiPsxapmdyDj6SwIxq0UWZqySniA55viV00yJcNLQkRHBN64m2LDciFkesSW0RJ5s8poobBfHaaMS0LBBGUglTaWVU6Pr2AkbsKsEOBPI3PBSvadHycgrVKGyVadVBLJ4-cg8VpRxmc-XxFf9jNtpfpbc16M7K0NPBq2DC4WCjtzyBQld8lE8mzDaq8Sp1cFwUHE3n6CEK_Fyw43_SqalirYcZ2iLBAzQr0g7uGn72vkbVA6EsIPlBUrRnHw~~)    [**» Full text HTML**](https://links.springernature.com/f/a/ExWqtRvoHEByO3GVAkmWsQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4QKH0ltiPsxapmdyDj6SwIxq0UWZqySniA55viV00yJcNLQkRHBN64m2LDciFkesSW0RJ5s8poobBfHaaMS0LBBGUglTaWVU6Pr2AkbsKsEOBPI3PBSvadHycgrVKGyVadVBLJ4-cg8VpRxmc-XxFf9jNtpfpbc16M7K0NPBq2DC4WCjtzyBQld8lE8mzDaq8Sp1cFwUHE3n6CEK_Fyw43_SqalirYcZ2iLBAzQr0g7uGn72vkbVA6EsIPlBUrRnHw~~) [**» Full text PDF**](https://links.springernature.com/f/a/KStJCHMp3JCqbeT7__oisQ~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L7gzEHJwTaqf8Py48usfmoldjw2VfhR4Fo98IUViyPUcwHiuO-yPzFE_wL_7uSVMVSLutIoD1UfgNTucueRK3dmOvcCwJSy4TmF-mvK0_GSwl3AqpNyIIKCEZQlzCEgnxrNI_hg2LWOxJO4iwT9gBCvIc09VaLG_1si2sjg-klfsskMlAtv1zfJmwn_JLsTfoh1ItIoKDZn5OJ8tvMKiIwbXU7AiiMOCmR2ooNiqJ9XmKIjecvC30Mnp9Y72aVMPlg~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
|  |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [High cyclic fatigue behavior of 3D-printed titanium alloy TA15](https://links.springernature.com/f/a/NN3ZOyUHhANvvtsITx5BZA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4eziwIBIj76tFgGiX4PVpalYrLEzcsF_kngh7X_ycLGQqFkOR4fPUcoLcWrL5n7oJwnLOd3PV6o2RP1Ulzfa8enUjb4ZBmSljJTi_pQqW1DyfMTtcqDLsmBW2caHF8-a1-Do9UvBLZZoWltdZH_7hW71z5tsNKGxAH2hSo22fk7p4Yzcd-TBcL4sTYmPC5WCjcJya2-QVFq7YEsVumeSxA4UFlcHHbTixnUPptGuje4HryZeBrMl9GntniEcoXl37w~~) |
| Volodymyr Nesterenkov, Serhiy Akhonin, Illia Klochkov, Vladyslav Matviichuk, Volodymyr Berezos, Sviatoslav Motrunich |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/NN3ZOyUHhANvvtsITx5BZA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4eziwIBIj76tFgGiX4PVpalYrLEzcsF_kngh7X_ycLGQqFkOR4fPUcoLcWrL5n7oJwnLOd3PV6o2RP1Ulzfa8enUjb4ZBmSljJTi_pQqW1DyfMTtcqDLsmBW2caHF8-a1-Do9UvBLZZoWltdZH_7hW71z5tsNKGxAH2hSo22fk7p4Yzcd-TBcL4sTYmPC5WCjcJya2-QVFq7YEsVumeSxA4UFlcHHbTixnUPptGuje4HryZeBrMl9GntniEcoXl37w~~)    [**» Full text HTML**](https://links.springernature.com/f/a/NN3ZOyUHhANvvtsITx5BZA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4eziwIBIj76tFgGiX4PVpalYrLEzcsF_kngh7X_ycLGQqFkOR4fPUcoLcWrL5n7oJwnLOd3PV6o2RP1Ulzfa8enUjb4ZBmSljJTi_pQqW1DyfMTtcqDLsmBW2caHF8-a1-Do9UvBLZZoWltdZH_7hW71z5tsNKGxAH2hSo22fk7p4Yzcd-TBcL4sTYmPC5WCjcJya2-QVFq7YEsVumeSxA4UFlcHHbTixnUPptGuje4HryZeBrMl9GntniEcoXl37w~~) [**» Full text PDF**](https://links.springernature.com/f/a/5P1W97iWgU3P5ytD3uynfw~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L6sXsKeIkZqUmqRXFvDyRsxSiBsjzKfVE1-PxRSrd2Htbjl87H-5vMehjU1TdQNUAQQZ1e-BZhhB00UE9hRxezal1ROGHdyCbUkJbPciphvYum4wDzR2tYqXTfkTSqzU1lr9mC_CfA4k236_RmYm-e5gyOrXT6tXCpc07-W25xVGaT0rMXogd2AJjXYEV3-HYFH19eQd7GF4Y1shJJANQnMcbPXWUNciQZjnHYEwCpF9Exa5wV40YQ-B-ejg9zwraQ~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
|  |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Detection of hot water boiler tubes inner surface damages at early stage of their development using the metal magnetic memory method](https://links.springernature.com/f/a/L9SH6n5pAjBIH06iVgRDTw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4ZOElwdVBHfmF9T-pnUynisWK4U7rr2VtnyaaByMXZMZGgxA-gwwIdPGPuSXg9O9SzGcsOTSb1xW8yI3Nk8azczUGyPHzZ6Y8nyARwW3XQUdd99t4uomJo1ZBSY4yfublbyKP6Qyahumx-v4L8Utx5us7Mn9UsUExrmJVI8S0IcsJkmR9Wjb28vnF1ThJq4thHh6Bvc8N5flYQwz7eptNiGp8CInauAOUO8p8KnGzs4EjiwwTKCDpdruPW-AM8bmEg~~) |
| Anatoly Dubov, Alexander Dubov, Sergey Kolokolnikov, Artem Marchenkov |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/L9SH6n5pAjBIH06iVgRDTw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4ZOElwdVBHfmF9T-pnUynisWK4U7rr2VtnyaaByMXZMZGgxA-gwwIdPGPuSXg9O9SzGcsOTSb1xW8yI3Nk8azczUGyPHzZ6Y8nyARwW3XQUdd99t4uomJo1ZBSY4yfublbyKP6Qyahumx-v4L8Utx5us7Mn9UsUExrmJVI8S0IcsJkmR9Wjb28vnF1ThJq4thHh6Bvc8N5flYQwz7eptNiGp8CInauAOUO8p8KnGzs4EjiwwTKCDpdruPW-AM8bmEg~~)    [**» Full text HTML**](https://links.springernature.com/f/a/L9SH6n5pAjBIH06iVgRDTw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4ZOElwdVBHfmF9T-pnUynisWK4U7rr2VtnyaaByMXZMZGgxA-gwwIdPGPuSXg9O9SzGcsOTSb1xW8yI3Nk8azczUGyPHzZ6Y8nyARwW3XQUdd99t4uomJo1ZBSY4yfublbyKP6Qyahumx-v4L8Utx5us7Mn9UsUExrmJVI8S0IcsJkmR9Wjb28vnF1ThJq4thHh6Bvc8N5flYQwz7eptNiGp8CInauAOUO8p8KnGzs4EjiwwTKCDpdruPW-AM8bmEg~~) [**» Full text PDF**](https://links.springernature.com/f/a/VkhK65P5XjkfM9vxImh_Xw~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L04-uVjpYI_tVDT_UxvPIEIefMwL9VAgFa8N7irCBP34k6pgjgKz_Ukw4_6lxJO18z74V-APYKjbsC5J4b5eHsU7mUsBfGimAVlScaisK1YiaWQz2RVV7rTnywUpYWK0RiCoeu7VR8QyJqYETMzTl5ikyWp-IUCnK_2hETSjlr-c99Cd2o3C_GeVPHjb-Zl4GRzZAw0WTGtNLp1Dn5_B8_Rp0Zu_hyBZ9X6uwAWtiKY505pq6MLy5-pFcpz8f8Jb9Q~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Open Access |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Significance of fracture toughness for linear friction welded joint of weathering steel](https://links.springernature.com/f/a/N1jhbOu71cuqV0fMObnKsA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIjOOf5HIOwxvV1H7His4Fb267UN0Yr7NULFMwPUif5lGL1aTB_84yJupm5yGJu-4pbfqS4X03gcHcC3VJ0OH2jZvAE7hyVmiCy_G2ado56i21LCaJwbfDDChaXryLktVJcCsbNmWY6FvCWtEokoW8eh4J6RqRoK5jE9ynoBiaY7qrQeElgDGRrMDHk12Nf5i-WN92lG0C4fmHJHuswskPZ4Sc0QQcLGhkFJUuWK3KDPZzNuZdQBXsMECq1z8ANVX3w~~) |
| Kazuma Shimizu, Shota Nakayama, Hiroto Shoji, Takumi Kawakubo, Tomoya Nagira, Mitsuru Ohata, Hidetoshi Fujii |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/N1jhbOu71cuqV0fMObnKsA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIjOOf5HIOwxvV1H7His4Fb267UN0Yr7NULFMwPUif5lGL1aTB_84yJupm5yGJu-4pbfqS4X03gcHcC3VJ0OH2jZvAE7hyVmiCy_G2ado56i21LCaJwbfDDChaXryLktVJcCsbNmWY6FvCWtEokoW8eh4J6RqRoK5jE9ynoBiaY7qrQeElgDGRrMDHk12Nf5i-WN92lG0C4fmHJHuswskPZ4Sc0QQcLGhkFJUuWK3KDPZzNuZdQBXsMECq1z8ANVX3w~~)    [**» Full text HTML**](https://links.springernature.com/f/a/N1jhbOu71cuqV0fMObnKsA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIjOOf5HIOwxvV1H7His4Fb267UN0Yr7NULFMwPUif5lGL1aTB_84yJupm5yGJu-4pbfqS4X03gcHcC3VJ0OH2jZvAE7hyVmiCy_G2ado56i21LCaJwbfDDChaXryLktVJcCsbNmWY6FvCWtEokoW8eh4J6RqRoK5jE9ynoBiaY7qrQeElgDGRrMDHk12Nf5i-WN92lG0C4fmHJHuswskPZ4Sc0QQcLGhkFJUuWK3KDPZzNuZdQBXsMECq1z8ANVX3w~~) [**» Full text PDF**](https://links.springernature.com/f/a/_pDg-AAUgOVKFSNWOEfjKQ~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L9Pr_pXM3o23zT2D-ysoX0mHN62croGGDJygxulY37rLvLZ1ETXLC8ZXlcSIXnDNt4fonyEmk2tXl00eTfc5v-QafXKlFjUT5NuOyJPa9Uj2nqIQ6ZUXceG999uUJ8FjyzBkZgjO_IZZa2okxfcpcM1SIFwWsNgQfBzet3_34HPqRm3tvP5HN5UHPF4ukLVtOFgFR-KZeJ6U0L5YQ7t4mE2zWbczyyksWS1oQetioxuUz9neUNR0ywiLrYAzTrfGQA~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Open Access |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Development of a carbon equivalent formula for underwater wet welding](https://links.springernature.com/f/a/htlEiMMNOsStCF-RDW0ToQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIuOKFRt5wVbbkJjJPTBxcWznbwxqpOVP1a1ZcIo8TVGGRVaV7OXrckceMqBH-tn7ZYtBVrAVzqWLAyAHI3TUqzAZczjBYbiFrfnxjsexy6KcylRQFHgZBs7obuQiSWBUDzyeq2QwSj9hu7cTZtzdXeNZyGs1OaMkHbL_VUFehY0OUlhYcseX2iA3WqZyZscdA8GDwjUqUXiNHY1n5tGiE32eEnkRXPbi94YFWV6JUngQOhgBHl-LmxujthMvPU2Guw~~) |
| Leandro Vaccari, Jan Klett, Thomas Scheithauer, Thomas Hassel, Hans Jürgen Maier |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/htlEiMMNOsStCF-RDW0ToQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIuOKFRt5wVbbkJjJPTBxcWznbwxqpOVP1a1ZcIo8TVGGRVaV7OXrckceMqBH-tn7ZYtBVrAVzqWLAyAHI3TUqzAZczjBYbiFrfnxjsexy6KcylRQFHgZBs7obuQiSWBUDzyeq2QwSj9hu7cTZtzdXeNZyGs1OaMkHbL_VUFehY0OUlhYcseX2iA3WqZyZscdA8GDwjUqUXiNHY1n5tGiE32eEnkRXPbi94YFWV6JUngQOhgBHl-LmxujthMvPU2Guw~~)    [**» Full text HTML**](https://links.springernature.com/f/a/htlEiMMNOsStCF-RDW0ToQ~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIuOKFRt5wVbbkJjJPTBxcWznbwxqpOVP1a1ZcIo8TVGGRVaV7OXrckceMqBH-tn7ZYtBVrAVzqWLAyAHI3TUqzAZczjBYbiFrfnxjsexy6KcylRQFHgZBs7obuQiSWBUDzyeq2QwSj9hu7cTZtzdXeNZyGs1OaMkHbL_VUFehY0OUlhYcseX2iA3WqZyZscdA8GDwjUqUXiNHY1n5tGiE32eEnkRXPbi94YFWV6JUngQOhgBHl-LmxujthMvPU2Guw~~) [**» Full text PDF**](https://links.springernature.com/f/a/pwkzkYq-hmU6fzskFnZsUg~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5LyMvH70fjvDxFw3kun0RsRMJGJ2x2nG3UQR5sWCGF4oB1kADWC3odYxM52PWgeHv3UuPVZx2UuM43htivq3MnzjcOnIRiyyzosvp2K3Qp-SqgIASQbmLDaoQk-7jHvwdg-o5Sv75f06_cvqGC4BBadsV624fK4GFHuZjdvR14KfXKSGyF8Fm-pqPtibGPj7ZrYbM57gc0Pps0tuYbguE2E5eF_tW4mcHKglz5PMnjZ_BHr8MUN6RRBd3B027nL7rCQ~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
|  |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Equivalent meso-scale constitutive damage model for an aluminum alloy welded by oscillating laser welding](https://links.springernature.com/f/a/eFVw5gNNbr6UamMeOpXLxg~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIvdZESLSbuLpCvVvfdoRTZTVauIu8iRphlP5sppxUuF3XX_kOPzSqK8aYQx_wdjkNzNv1tuRytFSp6vdR0oq9ppeqDQ1lerggZZuq6cCjm4Lm9Pd1hvVgwWgpBGxKXCqz29C4kWoTKXk97t0z53ngQhX4dRZDrHB2Bf_2azDMfYrBIfEmn0SqwzTwndhozn-uvc5zAVqeEutZWctFAMaggwwwtdB1FBHq9HhG9jJb3qfssn4hZG9UCV6Fjetvk5F6Q~~) |
| Lifei Yang, Xin Chen, Yingying Gong |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/eFVw5gNNbr6UamMeOpXLxg~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIvdZESLSbuLpCvVvfdoRTZTVauIu8iRphlP5sppxUuF3XX_kOPzSqK8aYQx_wdjkNzNv1tuRytFSp6vdR0oq9ppeqDQ1lerggZZuq6cCjm4Lm9Pd1hvVgwWgpBGxKXCqz29C4kWoTKXk97t0z53ngQhX4dRZDrHB2Bf_2azDMfYrBIfEmn0SqwzTwndhozn-uvc5zAVqeEutZWctFAMaggwwwtdB1FBHq9HhG9jJb3qfssn4hZG9UCV6Fjetvk5F6Q~~)    [**» Full text HTML**](https://links.springernature.com/f/a/eFVw5gNNbr6UamMeOpXLxg~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIvdZESLSbuLpCvVvfdoRTZTVauIu8iRphlP5sppxUuF3XX_kOPzSqK8aYQx_wdjkNzNv1tuRytFSp6vdR0oq9ppeqDQ1lerggZZuq6cCjm4Lm9Pd1hvVgwWgpBGxKXCqz29C4kWoTKXk97t0z53ngQhX4dRZDrHB2Bf_2azDMfYrBIfEmn0SqwzTwndhozn-uvc5zAVqeEutZWctFAMaggwwwtdB1FBHq9HhG9jJb3qfssn4hZG9UCV6Fjetvk5F6Q~~) [**» Full text PDF**](https://links.springernature.com/f/a/WUjnGnegX3zWt9MJa4Sk8g~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L8Yt8bmOMGxweyLVW9re9Bk0jLfqzdJDztnB1MbB6jjhvtofbEcvWmMIlgFM7ywl2Gxu7a1QmGZLO28zac3WKD1FfRLkjuwN-xBjevIVTZhBYaAGINrcUoZgR66JjxFuGk5tXE-sNMgJ52urXd6EYUrrH4oT_kuIGfTDhLceVkbKoR5GwEgzllUGt154axgz_3dHaeRTegmjQ3ragyX4RfzbKVZwuiYRHDLvLmbpkto6MpbXDr6pao5YNVzfsTpM7A~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
|  |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Formulation for evaluating tensile strength of girth weld joint of linepipe with softened HAZ under internal pressure](https://links.springernature.com/f/a/ngg87BmOA2hqvPS79T-NWw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4ZPPSys7TIa1XwXJhvEMvS5-YxvpryGy2m2Be9ga4Q5vVG1rccthMZYZGDUiVUtcUBnyOBBf0cxSKoxm4aX4Yk27h195ZRl9cKiLtIjDUOjbXP_lpm4xM_pRsRguQxoJsF2ny9Z18uUuT5ZG9C4tybuqg5XGVM8uEQqsBqW46CYtfbJLn8SIx_ydVbIVdZCTCd2oCmtbqcD6n7MmQ79AqExjs-XH15erSwxsAqA_7uKAhhCFcHSCGWPhBw3oNdoWtw~~) |
| S. Onuki, M. Mitsuya, M. Ohata |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/ngg87BmOA2hqvPS79T-NWw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4ZPPSys7TIa1XwXJhvEMvS5-YxvpryGy2m2Be9ga4Q5vVG1rccthMZYZGDUiVUtcUBnyOBBf0cxSKoxm4aX4Yk27h195ZRl9cKiLtIjDUOjbXP_lpm4xM_pRsRguQxoJsF2ny9Z18uUuT5ZG9C4tybuqg5XGVM8uEQqsBqW46CYtfbJLn8SIx_ydVbIVdZCTCd2oCmtbqcD6n7MmQ79AqExjs-XH15erSwxsAqA_7uKAhhCFcHSCGWPhBw3oNdoWtw~~)    [**» Full text HTML**](https://links.springernature.com/f/a/ngg87BmOA2hqvPS79T-NWw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4ZPPSys7TIa1XwXJhvEMvS5-YxvpryGy2m2Be9ga4Q5vVG1rccthMZYZGDUiVUtcUBnyOBBf0cxSKoxm4aX4Yk27h195ZRl9cKiLtIjDUOjbXP_lpm4xM_pRsRguQxoJsF2ny9Z18uUuT5ZG9C4tybuqg5XGVM8uEQqsBqW46CYtfbJLn8SIx_ydVbIVdZCTCd2oCmtbqcD6n7MmQ79AqExjs-XH15erSwxsAqA_7uKAhhCFcHSCGWPhBw3oNdoWtw~~) [**» Full text PDF**](https://links.springernature.com/f/a/-H8-cZI_pnjl2DIPD0BHhg~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L9zeX1T9p5KFvuCoCFmc1dXYrGJJDu-EFYDKu9BzSVQeOY2R8PHySipR4AWXSXy4rQqCW3rSnxnH2dHo-vriHgJwooEfP0jn_HkqnaJZGajC4cUjVbDWjCt-2kRIqdX5Y67AQJmdCej37w0fxY1V9-C1PSVgJpvSQX82GNf2xFVPNrQbxnDstUV2CiiSWO-jPaCVRo6da1EaCUsHXxKYeZ5UYx31sb3JYOvgvtK-155QcnU8qM_ihnI8-hhpF1cJwQ~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
|  |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Analysis of the impact of isothermal hardening on the mechanical properties and abrasion resistance of welded joints on Hardox Extreme steel](https://links.springernature.com/f/a/rGxzTc6DQNZOaEh6kxfoCA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4UUt4ngsGt6diURVEzag2y06B6mHc0exrLs0wwEUay4GF1ywic2KKqtRMG3iM-RFstHWa22tHxolTUvBuMjXuHoYWBsnJZu0Tz1pkJph-sKAPflzc33U-T0wfh9WAFL21OYpqtBYqIn9e6UMl7fyAzn1Q8QHwRnKyL_wU_yLlKCxesqihJZmLmve-NbQt32FwSqF7TB_G8rymPEyOVlsx_F21utEVrguEhniCjdxQHHPpiYlMuedQKv3tf8_a_i4Tg~~) |
| Martyna Zemlik, Łukasz Konat, Beata Białobrzeska, Paweł Skoczylas, Krzysztof Jamroziak |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/rGxzTc6DQNZOaEh6kxfoCA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4UUt4ngsGt6diURVEzag2y06B6mHc0exrLs0wwEUay4GF1ywic2KKqtRMG3iM-RFstHWa22tHxolTUvBuMjXuHoYWBsnJZu0Tz1pkJph-sKAPflzc33U-T0wfh9WAFL21OYpqtBYqIn9e6UMl7fyAzn1Q8QHwRnKyL_wU_yLlKCxesqihJZmLmve-NbQt32FwSqF7TB_G8rymPEyOVlsx_F21utEVrguEhniCjdxQHHPpiYlMuedQKv3tf8_a_i4Tg~~)    [**» Full text HTML**](https://links.springernature.com/f/a/rGxzTc6DQNZOaEh6kxfoCA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4UUt4ngsGt6diURVEzag2y06B6mHc0exrLs0wwEUay4GF1ywic2KKqtRMG3iM-RFstHWa22tHxolTUvBuMjXuHoYWBsnJZu0Tz1pkJph-sKAPflzc33U-T0wfh9WAFL21OYpqtBYqIn9e6UMl7fyAzn1Q8QHwRnKyL_wU_yLlKCxesqihJZmLmve-NbQt32FwSqF7TB_G8rymPEyOVlsx_F21utEVrguEhniCjdxQHHPpiYlMuedQKv3tf8_a_i4Tg~~) [**» Full text PDF**](https://links.springernature.com/f/a/cef32KQ-bZ4VvYovnATdYg~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5LzYDBBZsqN8jUH83kKBligEYWOo2vgcp1vwCi85WLhu806uDRDh65W1f4jfTIGBNdjV-fh00xxpai87phJ04JYclDtW5IlMHG_Y3w-SAPvfjvxN08SlnBcx-h09LginlNeWJDsGO-hvQhSF8i6gPDlM1DzHoUiX9EFKRlDMxkxI8ZKmCyIT1xFzOSPBLrzFW1VzJwDTDWZNfvfyrDO7Z7xEwPw00uK53e1mdNcqqInmc-MGvcnirrk3zQNIkInYNtw~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Open Access |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Microstructural insights into the coarse-grained heat-affected zone of a high-strength all-weld metal: Development of a continuous cooling transformation diagram](https://links.springernature.com/f/a/KpPIfu1XqaSoHD2eCESLNA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIr7FMVNawv9gTgpwagekwt218EMJ2S_20HWBrF2x_RhUEePmfDP35G1ULE3LWrq4HdqivfXLXNDOvqC6KvFwYm4d2C0BWqi_1HlqrYLy_Jy01hpKfbCT7FOuMtLnfCCGbNzxuKsRwzs_KEm0jETZEcXuh1exXu-LsZ_LJNjfX1bCa-4fmvuez4Y6Lb2Gmi_hk8ZA4Cel2eiqpDjG5LgXevOUoRumhULdjP5ZYIyATXojtA7JFI8xeplegWGfokZANw~~) |
| Daniel Schrittwieser, David Marin Morales, Hannes Pahr, Lea Andrea Lumper, Oleksandr Glushko, Ronald Schnitzer |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/KpPIfu1XqaSoHD2eCESLNA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIr7FMVNawv9gTgpwagekwt218EMJ2S_20HWBrF2x_RhUEePmfDP35G1ULE3LWrq4HdqivfXLXNDOvqC6KvFwYm4d2C0BWqi_1HlqrYLy_Jy01hpKfbCT7FOuMtLnfCCGbNzxuKsRwzs_KEm0jETZEcXuh1exXu-LsZ_LJNjfX1bCa-4fmvuez4Y6Lb2Gmi_hk8ZA4Cel2eiqpDjG5LgXevOUoRumhULdjP5ZYIyATXojtA7JFI8xeplegWGfokZANw~~)    [**» Full text HTML**](https://links.springernature.com/f/a/KpPIfu1XqaSoHD2eCESLNA~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIr7FMVNawv9gTgpwagekwt218EMJ2S_20HWBrF2x_RhUEePmfDP35G1ULE3LWrq4HdqivfXLXNDOvqC6KvFwYm4d2C0BWqi_1HlqrYLy_Jy01hpKfbCT7FOuMtLnfCCGbNzxuKsRwzs_KEm0jETZEcXuh1exXu-LsZ_LJNjfX1bCa-4fmvuez4Y6Lb2Gmi_hk8ZA4Cel2eiqpDjG5LgXevOUoRumhULdjP5ZYIyATXojtA7JFI8xeplegWGfokZANw~~) [**» Full text PDF**](https://links.springernature.com/f/a/nvlyyhN9EzZUYvHRa_aMjg~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L-f7ZFYth1AD1qjQ3BkWfr1vCRXoTTGwzxPff2Rp9Z7E6UB5FGQ-Th75WfBOYG7HGRpJeJQBXPAx9Y-LgJx246Pdg8UejTux8U9URnPuIDBlZ_IN2yERlKCZOpSbrnrCQNV23hadONC2Gaqp8hppRktvrKqU4obz6YibzE5Wuw9fsxBDprxjQEUldRz2krkUJiv22SGrfWGyvFGQL8EMYEALpRJn6FV7nh-pqILZIwi55cp7cPbcPZm1VxfHcpcwYQ~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Open Access |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Physical simulation-based analysis of multipass welding in S500 shipbuilding steel](https://links.springernature.com/f/a/G9toCNDKCf-yg-FXxagHCw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIq5cV-KIveNy05ePkV-wCab9GjUlQeUMghh1cbTWwSgByCx0ywhgZA-Gfk_3GMVOGa9w_IilLqtuJQj_Ejr72empv9hUxME-6aRoMvswYeXgafE90DLt0oHXGqhAxWSkMeXsw2uevkC1np0GqE48TOqW8wN-cAHtydIeMSe21cQLGkmi_bj62CVsr-Lc3uHD1sWIOD5LbYALEwXcRTKmjlNp-XYRdWqn5B5mC0lN09ReqBCGuM6WpgKYltWYDutBmw~~) |
| M. Gáspár, J. Kovács, J. Sainio, H. Tervo, V. Javaheri, A. Kaijalainen |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/G9toCNDKCf-yg-FXxagHCw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIq5cV-KIveNy05ePkV-wCab9GjUlQeUMghh1cbTWwSgByCx0ywhgZA-Gfk_3GMVOGa9w_IilLqtuJQj_Ejr72empv9hUxME-6aRoMvswYeXgafE90DLt0oHXGqhAxWSkMeXsw2uevkC1np0GqE48TOqW8wN-cAHtydIeMSe21cQLGkmi_bj62CVsr-Lc3uHD1sWIOD5LbYALEwXcRTKmjlNp-XYRdWqn5B5mC0lN09ReqBCGuM6WpgKYltWYDutBmw~~)    [**» Full text HTML**](https://links.springernature.com/f/a/G9toCNDKCf-yg-FXxagHCw~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKIq5cV-KIveNy05ePkV-wCab9GjUlQeUMghh1cbTWwSgByCx0ywhgZA-Gfk_3GMVOGa9w_IilLqtuJQj_Ejr72empv9hUxME-6aRoMvswYeXgafE90DLt0oHXGqhAxWSkMeXsw2uevkC1np0GqE48TOqW8wN-cAHtydIeMSe21cQLGkmi_bj62CVsr-Lc3uHD1sWIOD5LbYALEwXcRTKmjlNp-XYRdWqn5B5mC0lN09ReqBCGuM6WpgKYltWYDutBmw~~) [**» Full text PDF**](https://links.springernature.com/f/a/02hMs_9KFO5QlEg4OwhCMQ~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L-qYlx53MPQEWolUWdOhKJ0xCeXVoHfkiV7OHRT0brNcTtz9NgE4kZA6vxm9YaJkjKJ7BW0cYDZywTAWOcHR0bwX23c0fwIHV9oDx80xr1lqt36PDL0FL684LMxFSfGV5A2PpS01t4Kle8sSG6qYipSLriACtJD5iYsBCi8D659fN_-CWMJ2DOIuzVnKj9VPM5hqPM4lwfwA0z1DGSkDSb_sSDXDKEDTiUQdxlvO1auc-60KctqLZySopkP5wEloEA~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Open Access |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Enhancing austenite formation in directed energy deposition-arc fabrication of duplex stainless steel using nitrogen-bearing shielding gas](https://links.springernature.com/f/a/uvNbTYaLlZ5cbMbM6CJUhg~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKInxTkqSf-0yAlRvWYion1uidtZPdKLx8G14c1I7WvZz8BGQVoV25CnYSAT_J2EFQuzsw7-8mKu2h4F5Vw-Ms-WA6TKY7XwTFHtkasUXz6TYhdT514yORgw0cRSgjoWZPUJNuAfEmE3bXDGrvRoKADChT7a7I5LZodxJBkIpnCo-eW0EgspS9kxKqe_OO4_dImSKeYvKdiKqPcFb_z_zJDP8gR3er323HicXYJQs34XDAL0QsxGRQ4Bdrt8mBvekCuA~~) |
| Tamás Tóth, Elin M. Westin, Markus Köhler, Klaus Dilger |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/uvNbTYaLlZ5cbMbM6CJUhg~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKInxTkqSf-0yAlRvWYion1uidtZPdKLx8G14c1I7WvZz8BGQVoV25CnYSAT_J2EFQuzsw7-8mKu2h4F5Vw-Ms-WA6TKY7XwTFHtkasUXz6TYhdT514yORgw0cRSgjoWZPUJNuAfEmE3bXDGrvRoKADChT7a7I5LZodxJBkIpnCo-eW0EgspS9kxKqe_OO4_dImSKeYvKdiKqPcFb_z_zJDP8gR3er323HicXYJQs34XDAL0QsxGRQ4Bdrt8mBvekCuA~~)    [**» Full text HTML**](https://links.springernature.com/f/a/uvNbTYaLlZ5cbMbM6CJUhg~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUBOby0Cu0CFIMHZRzIItKInxTkqSf-0yAlRvWYion1uidtZPdKLx8G14c1I7WvZz8BGQVoV25CnYSAT_J2EFQuzsw7-8mKu2h4F5Vw-Ms-WA6TKY7XwTFHtkasUXz6TYhdT514yORgw0cRSgjoWZPUJNuAfEmE3bXDGrvRoKADChT7a7I5LZodxJBkIpnCo-eW0EgspS9kxKqe_OO4_dImSKeYvKdiKqPcFb_z_zJDP8gR3er323HicXYJQs34XDAL0QsxGRQ4Bdrt8mBvekCuA~~) [**» Full text PDF**](https://links.springernature.com/f/a/TpbUAguBSUqZEHiqhlkwYQ~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5LzRgogSfxWmV_eA95vFeAeCc1yBvBTOtZUZVGECd5A2iACm5EG0tKZwwvu6sx2mn4Je1seqBiPC8qI6x_Orku3uViXAulYhaUw9CeHJz6iOnBx-gLROf0Nl4Y-vaKtnP9DbJYnxz7HHQTU52rYRTU5rQSF058tgDr4xUtrj-3t6IunF4FVtBDyHlXraBM65xIuo6ryVQpCbtR2fYc1HThxgSM9NTBeahxlmDSdnsC4xescllTNaPTkWuScpFy0di8A~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Open Access |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [In situ alloying of AlCuSi using dual-wire-directed energy deposition with plasma](https://links.springernature.com/f/a/RnubsuWvHK3Rhzp6St23_Q~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4TgCXuJ9KvUkeyVnNm1mna96JjvZGSG0WxFalfQp4l_Q_LpQLVRyp1RSRtAlRl_1PQy-hD2MC5spPPsuZrXIC-TiTR24VNx3DmGx-248GL5zkhjU4NVJtEE0DFwYMc_dyEb9WBboi8NCs_qS4YU1mSPVjjOwLBSFpXNj2CTDHvK3EiMg0FLzjSWUp5JXcJf39tKLbzrGlbyqiOGmcu34lUGnvDO3xiTrmeKH8EvyA1iYgWhM1m5QZZtNPUhFX7YoWw~~) |
| S. Reinbacher, T. Klein, C. Simson, F. Warchomicka, P. Spoerk-Erdely, N. Enzinger |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/RnubsuWvHK3Rhzp6St23_Q~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4TgCXuJ9KvUkeyVnNm1mna96JjvZGSG0WxFalfQp4l_Q_LpQLVRyp1RSRtAlRl_1PQy-hD2MC5spPPsuZrXIC-TiTR24VNx3DmGx-248GL5zkhjU4NVJtEE0DFwYMc_dyEb9WBboi8NCs_qS4YU1mSPVjjOwLBSFpXNj2CTDHvK3EiMg0FLzjSWUp5JXcJf39tKLbzrGlbyqiOGmcu34lUGnvDO3xiTrmeKH8EvyA1iYgWhM1m5QZZtNPUhFX7YoWw~~)    [**» Full text HTML**](https://links.springernature.com/f/a/RnubsuWvHK3Rhzp6St23_Q~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4TgCXuJ9KvUkeyVnNm1mna96JjvZGSG0WxFalfQp4l_Q_LpQLVRyp1RSRtAlRl_1PQy-hD2MC5spPPsuZrXIC-TiTR24VNx3DmGx-248GL5zkhjU4NVJtEE0DFwYMc_dyEb9WBboi8NCs_qS4YU1mSPVjjOwLBSFpXNj2CTDHvK3EiMg0FLzjSWUp5JXcJf39tKLbzrGlbyqiOGmcu34lUGnvDO3xiTrmeKH8EvyA1iYgWhM1m5QZZtNPUhFX7YoWw~~) [**» Full text PDF**](https://links.springernature.com/f/a/jSGjiErJBpEkwiJYaj4dKw~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L6fxrGwcJonQU2z2AO07wmEr21rV2pVLK6F-tbFjAJPRcLZuKKAybVRVpXSDDASnBkiKxEePf7Gz-R1KFaylb6PwtNH7BfVfxfaCNQhOcaO-va_-4JWp8rxp00Um4kkaz1xUs2-QHV0a7COwgbYdfJF5DPe60to1i1laHxIasSQ6zX8Bc3g0VBnNB01kTmHf3HhrpAqR1wei7bCZr77QbcczRnc7FWLaJo_rSb4QSJHgHezAOZ9azu2wxPMw2jPEkQ~~) |

 |

 |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
|    |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| Research Paper |

 |

 |

|  |  |
| --- | --- |
|

|  |
| --- |
| Open Access |

 |

 |

 |

 |

 |
|

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |
| --- |
| [Investigation of resistance to gaseous hydrogen of a longitudinal weld seam in a X65 pipeline using the hollow specimen technique](https://links.springernature.com/f/a/BY6TbmXbbihdnMbMXvpLag~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4YOFd82xYlFHP72xC8d0gHQX1x0v3LuR_qYa4WSMZkIArBC_CBjLt5bmkiluLmvN7yEYvryatHyiqwjc1JtAD0EmUJlfiUQjmc25irtIMAkQbFS3nyEIJR-F4_I1yv68BRw-kfjgcELtynG0eLMywZMUfD570TY-8PCjwSYPLI8KpnnkkY-bGkC9F4-Y-JHiNcC2hCshp-blTt3rjORWk6D2bJB8zdSv67bfrY5BYne3cvBbcgzLw4nTnRZk8sc9aQ~~) |
| Florian Konert, Jonathan Nietzke, Tomás Freitas, Michael Rhode, Oded Sobol, Thomas Böllinghaus |

 |

 |

 |

 |

 |
|

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
|

|  |
| --- |
| [**» Abstract**](https://links.springernature.com/f/a/BY6TbmXbbihdnMbMXvpLag~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4YOFd82xYlFHP72xC8d0gHQX1x0v3LuR_qYa4WSMZkIArBC_CBjLt5bmkiluLmvN7yEYvryatHyiqwjc1JtAD0EmUJlfiUQjmc25irtIMAkQbFS3nyEIJR-F4_I1yv68BRw-kfjgcELtynG0eLMywZMUfD570TY-8PCjwSYPLI8KpnnkkY-bGkC9F4-Y-JHiNcC2hCshp-blTt3rjORWk6D2bJB8zdSv67bfrY5BYne3cvBbcgzLw4nTnRZk8sc9aQ~~)    [**» Full text HTML**](https://links.springernature.com/f/a/BY6TbmXbbihdnMbMXvpLag~~/AABE5hA~/DuLr1wFqdN1pBhFO7gpHG1jC6MZmZJE7kPIXeuTvHSj7tyqaSwftobcO8VOQOoFUzo2H7_kPPQzesNZ0-f7K4YOFd82xYlFHP72xC8d0gHQX1x0v3LuR_qYa4WSMZkIArBC_CBjLt5bmkiluLmvN7yEYvryatHyiqwjc1JtAD0EmUJlfiUQjmc25irtIMAkQbFS3nyEIJR-F4_I1yv68BRw-kfjgcELtynG0eLMywZMUfD570TY-8PCjwSYPLI8KpnnkkY-bGkC9F4-Y-JHiNcC2hCshp-blTt3rjORWk6D2bJB8zdSv67bfrY5BYne3cvBbcgzLw4nTnRZk8sc9aQ~~) [**» Full text PDF**](https://links.springernature.com/f/a/LujHPhaGP9A4a2--bPESMg~~/AABE5hA~/yH5lFuWXh4_QBsNk058vdxtmvUGOFgTcpY7G1CiIF5wN3AX4WocKrg5ddpGRipnOdpVcStVB047rjKJvrCG5L9L7vy31YuPnV2PifqNj5UZRxkoWHTm44iIpjPayaXs87S52Ia3nr_Csz8leNOKVheUHyTpHfxESrtUUZnDKh45htiQbu7PQG5f8Ztno4XLH1qYQdu6QuOcrDyw-cgr8sgHXAjW0d_wR898YYlaCU_m1oB1OXjwGs8QDGOx8T73NNTvQroeg0m0RnVXfZ73jPm3bcFlGzUriFaBu-SzXk10AJHnL7eyCfSCzaG75zIChhOJjwOhj9QMfETEZVC4p0A~~) |

 |

 |

 |

 |