EIT Opto-Routing

Comparison of High Precision and Bandwidth Performance of Cold Joints

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Comparison of Warm and Cold Forging with Friction Welding

The forging technique becomes essential to succeed in these mechanical requirements. A comparative study evaluates the performance of constant velocity joints (CVJs) produced by multi

Mechanical Behavior of Hardened Printed Concrete and the Effect of

This experimental study investigates the influence of interlayer orientation and the presence of cold joints (CJ) on mechanical properties, such as stiffness and strength.

Effects of cold joints on concrete mechanical properties and tunnel

To reveal their impacts on tunnel service performance, indoor tests and theoretical analysis are used to assess the mechanical properties of concrete with cold joints, including elastic

Experimental Investigation of the Effect of Cold Joint on

It was found that strength losses due to drying-wetting and freezing-thawing of specimens with cold joints were higher than those of the specimens without cold joints. Strength losses of concretes after

1 NUMERICAL ANALYSIS AND DESIGN OF COLD-FORMED HIGH

68 design rules for cold-formed steel RHS X-joints made of S900 steel grade at elevated temperatures. 69 In addition, the appropriateness of current design rules given in EC3 and CIDECT , using

Influence of thermal fatigue cycles on concrete cold joints

To better understand the behaviour of cold joints subjected to these thermal fatigue cycles, an experimental program was conducted at the University of Manitoba, focusing on the performance

Evaluation of Bonding Shear Performance of Ultra-High

This study set out to derive the optimal conditions for ensuring the monolithicity of ultra-high-performance concrete (UHPC). Direct shear tests were

Strength Prediction of Concrete with Cold Joints Using Artificial

This study recommends surface treatment of cold joints with cement slurry or chemical admixture when concreting in large volume to avoid the effects of cold joints.

Multi-stage cold forging and experimental investigation for the outer

In this study, the multi-stage cold forging process for obtaining the outer race of the CV joint was proposed, the process simplification was also performed, and the proposed multi-stage cold

Nonsmooth-Optimization-Based Bandwidth Optimal

Control for Precision

Aiming to provide an eficient and high-performance con-troller synthesis tool for precision motion systems, this paper proposes a novel bandwidth optimal control formulation based on nonsmooth

Shear Capacity of Cold Joints with Conventional and High-Strength

An equation is proposed that more accurately predicts the shear friction strength of cold-joint and uncracked interfaces for high-strength concrete.

Fracture performance and fracture characteristics of concrete

This paper investigates the effect of pouring interval on the fracture performance and fracture characteristics of concrete beam with cold joints through three-point bending

Numerical investigation on ultrahigh performance concrete (UHPC)

The research numerically investigated the performance of the UHPC composite system using finite element simulation. The investigated parameters were cold joint shapes, reinforcement ratio and

Experimental study on bond performance at UHPC-UHPC cold joints

This study aimed to investigate the effects of surface preparation on bond performance at UHPC-UHPC cold joints. Different test methods were performed to determine the bond strength

Experimental and numerical comparison of cold expansion and

The objective of this paper is to extend the knowledge about the fatigue behavior of cold expanded and interference fitted plates in double shear lap joints and compare the effect of these

The Ultimate Guide to Preventing Cold Solder Joints:

Learn how to prevent cold solder joints with our ultimate guide. Master temperature, techniques, and tools for reliable PCB connections.

A new strategy for preparing high strength and high precision diffusion

In this work, a new diffusion bonding strategy for preparing high-strength and high-precision GH536 joints via pulsed current and subsequent heat treatment was designed.

Cold Solder Joint: Understanding and Prevention

A cold solder joint is a defect caused by improper melting of solder to bond PCB electronic components. This defect can impact the functionality of a

Mechanical Behavior of Hardened Printed Concrete and the Effect of Cold

The layered nature of extrusion-based concrete printing introduces challenges, such as interlayer weaknesses, that compromise structural integrity and mechanical performance. This experimental

Effects of cold joints on concrete mechanical properties and tunnel

Cold joints affect tunnel service performance by influencing the damage extent and cracking of lining concrete. Reductions in steel bar diameter and bedding coefficients exacerbate the

Shear Capacity of Cold Joints with Conventional and High-Strength

An experimental program involving 24 reinforced concrete (RC) pushoff specimens was conducted to investigate shear stress transfer across untreated and intentionally roughened cold joints.

How GPR Technology Helps Detect Cold Joints in

Conclusion Detecting cold joints in concrete is crucial for maintaining the structural integrity of buildings, roads, and other infrastructure. Ground

Analytical Method and Analysis of Cold-Joint Interface

Cold-joint interface behaviour analysis was performed by predicting the shear stress and slippage values using the proposed analytical method, by

Evaluation of Bonding Shear Performance of Ultra-High-Performance

This study set out to derive the optimal conditions for ensuring the monolithicity of ultra-high-performance concrete (UHPC). Direct shear tests were performed to examine the influence on the

Why Soldering Temperature Matters: Prevent Cracks,

What Happens When Soldering Temperature is Too High or Too Low? Effects of Excessive Temperature: Cracked Solder Joints: Overheating can cause

Mastering Cold Pressure Welding for High-Strength

One technique that has consistently proven its mettle in delivering high-strength, durable metallic joints is cold pressure welding. In this article, I'll share

Research on cold-formed high strength steel tubular T

The purpose of this paper is to briefly describe the investigations conducted by the authors on traditional and member-rotated T- and X-joints made of cold-formed S900 and S960 steel grades

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