

EDDY CURRENT INSPECTION OF WELD DEFECTS IN TUBING

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What is eddy current testing of welded tubes? Eddy current testing uses electromagnetic induction to identify defects in tubing. A probe is inserted into the tube and pushed through the entire length of the tube. Eddy currents are generated by the electromagnetic coils in the probe and monitored simultaneously by measuring probe electrical impedance.

What are the limitations of eddy current tube inspection? Limitations of Eddy Current Testing
Susceptible to magnetic permeability changes: Small changes in permeability can make testing of welds and other ferromagnetic materials difficult.
Only effective on conductive materials: Eddy current can only be used to measure materials that support the flow of electrical current.

What is eddy current for tubes? Eddy current testing is a nondestructive testing method commonly used to inspect tubing in heat exchangers, condensers, air coolers, and other appliances. Eddy current testing is a high-speed method that can be performed to inspect through painting and coatings and is used to assess the condition and lifespan of tubes.

How do you test eddy currents for SS tubes?

What is the ASTM standard for eddy current testing? Standard Guide for Eddy Current Testing of Electrically Conducting Materials Using Conformable Sensor Arrays (ASTM E2884)

What kind of defects can be detected by eddy current testing method? The Eddy current technology lends itself well to the detection of near-surface or surface

breaking defects such as surface scratches and corrosion and distinguishes types of conductive materials.

Why eddy current should always be avoided? Eddy currents generate resistive losses that transform some forms of energy, such as kinetic energy, into heat. This Joule heating reduces efficiency of iron-core transformers and electric motors and other devices that use changing magnetic fields.

How often should eddy current testing be performed? Maintaining high levels of heat exchanger and condenser performance and system reliability requires regularly scheduled maintenance and inspections. Ideally, an eddy current test will occur approximately every 3 to 5 years, possibly more frequently if there is active damage occurring that should be monitored.

What are the two methods of inspection that utilize eddy current principles? The two major applications of eddy current testing are surface inspection and tubing inspections. Surface inspection is used extensively in the aerospace industry, but also in the petrochemical industry. The technique is very sensitive and can detect tight cracks.

Who performs eddy current testing? Eddy current testing on tubes in heat exchangers, condensers, air conditioning and air coolers, requires specialist equipment and technical expertise. Intertek's NDT inspectors can perform this specialist advanced method.

What is eddy current in simple terms? We can define it as: Eddy currents are loops of electrical current induced within conductors by a changing magnetic field in the conductor according to Faraday's law of induction. Eddy currents flow in closed loops within conductors, in planes perpendicular to the magnetic field.

Is eddy current AC or DC? To be more precise, Eddy currents will be produced only if there is Physical motion of a magnet(Imagine that you are moving the magnet to and fro with respect to a conductor) OR there is a time varying magnetic field that can be produced by a electromagnet which is energized by an AC source.

What are the disadvantages of eddy current testing?

How to identify the crack or defect using eddy current test? An eddy current test instrument compares the transmitted signal with the received signal in order to draw conclusions about the surface of the test object. For example, if there is a crack on the surface of the test part, the eddy currents propagate differently. This leads to a change in phase position and amplitude.

What is the basic of eddy current testing? Eddy current testing is carried out using a specially designed coil that is energised with an alternating current that creates a changing magnetic field surrounding the coil. The coil is placed within the proximity of a test surface where the changing magnetic field permeates the conductive material.

How thick is eddy current inspection? Eddy current techniques are used to nondestructively measure the thickness of nonconductive coatings on nonferrous metal substrates. A coil of fine wire conducting a high-frequency alternating current (above 1 MHz) is used to set up an alternating magnetic field at the surface of the instrument's probe.

What is the ISO code for eddy current testing? Abstract. ISO 17643:2005 defines eddy current testing techniques for detection of surface breaking and near surface planar discontinuities, mainly in ferritic materials (weld material, heat-affected zones, parent materials).

What is the standard depth of eddy current testing? The depth of penetration decreases with increasing frequency and increasing conductivity and magnetic permeability. The depth at which eddy current density has decreased to $1/e$, or about 37% of the surface density, is called the standard depth of penetration (d).

What is eddy current inspection of welds? Using eddy current array for weld inspection can provide a means of detecting fatigue cracks before they propagate. Eddy current testing excels in the inspection of welds that are subject to cyclical loading that can generate cracks.

What are the most common uses of eddy current inspection? Eddy current testing is a non-destructive testing (NDT) inspection method used for a variety of purposes, including for flaw detection, material and coating thickness

measurements, material identification and establishing the heat treatment condition of certain materials.

What are the errors due to eddy current? Sources of error with eddy current measurement techniques The main sources of error in eddy current measurement sensors include: Selecting the wrong circuit type. Presence of another metallic object near the target. Temperature variations or environmental conditions that affect measurement accuracy.

What is meant by eddy current test? Eddy current testing (also known as eddy current inspection) is a method used in non-destructive testing, employing electromagnetism to detect surface breaking and slightly sub-surface flaws in materials.

What is eddy current testing of reformer tubes? The eddy current probes were developed by FOERSTER specifically to test reformer tubes with FULL penetration up to 23mm and all alloys. Unlike standard eddy current systems, these powerful probes generate a magnetic field strong enough to completely penetrate the tube material.

What are eddy currents in pipes? As the magnet passes through a given portion of the metal tube, this portion of the tube experiences a changing magnetic field, which induces the flow of eddy currents in an electrical conductor, such as the copper or aluminum tubing. The eddy currents create a magnetic field that exerts a force on the falling magnet.

What is eddy current used for? Eddy-Current Testing is a non-destructive test method for metals, which can be used to detect cracks in metals. Think along the lines of finding fatigue cracks in the skin of an airplane, or heat exchanger tubes in a power plant.

State of Travel: Skift Explores the Future of Tourism

Skift, a leading travel industry intelligence platform, recently released its latest "State of Travel" report. The report provides insights into the current and future landscape of the travel industry, addressing key questions that shape the future of tourism.

What are the Major Trends Shaping Post-Pandemic Travel?

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According to Skift, post-pandemic travel is characterized by several key trends, including:

- **Increased focus on sustainability:** Travelers are becoming more environmentally conscious, seeking out sustainable travel options.
- **Digital transformation:** Technology continues to play a vital role in shaping travel experiences, from booking and planning to in-destination services.
- **Experiential travel:** Travelers are seeking more unique and immersive experiences that go beyond traditional sightseeing.

How is the Travel Industry Responding to These Trends?

To address these trends, the travel industry is evolving in several ways:

- **Sustainability initiatives:** Hotels, airlines, and tour operators are implementing sustainability measures such as reducing waste, using renewable energy, and supporting local communities.
- **Digital innovation:** Companies are investing heavily in technology to improve customer experiences, such as mobile check-in, virtual reality tours, and personalized recommendations.
- **Experiential offerings:** Travel providers are creating new experiences that cater to specific interests, such as culinary tours, adventure activities, and wellness retreats.

What are the Key Challenges Facing the Travel Industry?

Despite the positive outlook, the travel industry still faces several challenges:

- **Economic recovery:** The COVID-19 pandemic has had a significant impact on the travel sector, and it may take time for the industry to fully recover.
- **Sustainability:** The industry needs to find ways to balance growth with environmental protection and address concerns about overtourism.
- **Changing traveler expectations:** Travelers are becoming more demanding and seeking personalized experiences, which can put pressure on travel providers to adapt.

What are the Long-Term Outlook and Predictions for Travel?

Skift predicts that the travel industry will continue to grow in the coming years, driven by factors such as rising incomes, increased leisure time, and technological advancements. However, the industry will need to address sustainability concerns and adapt to changing traveler preferences to ensure long-term resilience.

Typography Essentials: Unveiling 100 Design Principles for Working with Type

Typography, the art of arranging letters and characters, is a crucial element in design and communication. Understanding its principles ensures effective and visually appealing typography. Here are 100 essential design principles to guide your work:

1. **Hierarchy and Legibility:** Establish a visual order by utilizing different sizes, weights, and styles to differentiate headings, subheadings, and body copy. Ensure that the type is easily readable and conveys its intended meaning.
2. **Contrast and Color:** Use contrasting colors or fonts to highlight important elements or create visual interest. Experiment with complementary or analogous color schemes to enhance readability and impact.
3. **Whitespace and Spacing:** Embrace the power of whitespace to improve readability and balance. Utilize leading (the vertical space between lines) and tracking (the horizontal space between characters) to optimize spacing and enhance the visual appeal.
4. **Alignment and Justification:** Align text to create a sense of order and balance. Left-alignment is common for body copy, while right-alignment adds sophistication. Justification is suitable for formal documents but can affect readability.
5. **Ornaments and Embellishments:** Use ornaments, such as borders or flourishes, to enhance the visual impact of headings or special sections. Avoid overcrowding and ensure that embellishments support the overall design

concept.

Who originally sang "Lion Sleeps Tonight"? "The Lion Sleeps Tonight" is a song originally written and first recorded in 1939 by Solomon Linda under the title "Mbube", through South African Gallo Record Company. Lyrics of Linda's original version were written in Zulu, while those of the English one were later written by George David Weiss.

What do the lyrics mean in The Lion Sleeps Tonight? They don't tell a specific story but rather create a catchy, celebratory mood. However, as I said before, mbube means lion in Zulu. The true lyrics and meaning likely centered around keeping lions away from cattle herds, something Solomon Linda did as a young man.

Who had the biggest hit with The Lion Sleeps Tonight? The Tokens' label commissioned English-language lyrics for the song, which was re-titled "The Lion Sleeps Tonight" and went on to become not just a #1 song on this day in 1961, but one of the most-covered, most successful pop songs of all time.

What does the word uyiMbube mean? He heard the Zulu word "uyiMbube", meaning "He's a Lion", as it was chanted by the Evening Birds, as "WIMOWEH" and called his song by that name, which was also the core of the vocal rendition of the song.

How many versions of The Lion Sleeps Tonight are there? In 1961, producers Hugo & Luigi hired Brill Building tunesmith George David Weiss to add lyrics to "Wimoweh" and it became "The Lion Sleeps Tonight," a No. 1 hit for the Tokens. Within two years, there had been over 150 cover versions worldwide, in languages from Japanese to Finnish.

Who sang the high notes in The Lion Sleeps Tonight? Darian's high-pitched vocal — at one point soaring over the lines "In the jungle,/ the mighty jungle/ The lion sleeps tonight" — provided a memorable counterpoint to the lead vocal and the harmonized lower-register refrain "A-wimoweh-a-wimoweh." The record spent three weeks atop the Billboard pop chart.

What does Wimoweh mean in African? · 5y. "Wimoweh" is a mishearing of the original song's chorus of "Uyimbube"... Zulu for, 'You are a lion'. The song we know

as "The Lion Sleeps Tonight" or as "Wimoweh" was written in the 1920s by Solomon Linda a South African singer of Zulu origin.

What language is The Lion Sleeps Tonight? "The Lion Sleeps Tonight" is a song originally written and recorded by Solomon Linda under the title "Mbube" for the South African Gallo Record Company in 1939. Linda's original was written in Zulu, while the English version's lyrics were written by George David Weiss.

Who is the female singer in The Lion Sleeps Tonight tokens? It is the floating voice of Anita Darian. SIEGEL: And that's Lynda Wells, who was friends with Anita Darian for nearly 50 years. WELLS: Well, let me tell you a funny story about "The Lion Sleeps Tonight." The arrangers and producers called Anita in to record with this new group called The Tokens.

How much money did The Lion Sleeps Tonight make? In 1961, it became a number one hit in the U.S. as adapted by the Doo-Wop group The Tokens. It went on to earn at least 15 million US dollars in royalties from covers and film licensing.

Is The Lion Sleeps Tonight part of The Lion King soundtrack? In both the first movie and a later stage production, The Lion King features "The Lion Sleeps Tonight," a Sixties pop hit that has its roots in "Mbube," a song written and recorded in the Thirties by South African singer and migrant worker Solomon Linda.

What does mbube mean in Zulu? The word mbube means "lion" in Zulu. Traditionally performed a cappella, the members of the group are male, although a few groups have a female singer. In this form, groups of voices singing homophonically in rhythmic unison are employed to create intricate harmonies and textures.

What does the term Cardi O mean? Cardio- is a combining form used like a prefix meaning "heart." It is used in many medical and scientific terms. Cardio- comes from the Greek kardía, meaning "heart." In fact, the English word heart and the Greek kardía are related.

What does white Toubab mean? "Toubab" , "Toubabou" or "Toubob" is a Central and West African name for a person of European descent ("whites"). Used most frequently in The Gambia, Senegal, Guinea, and Mali, and also in Ivory Coast.

Where does the word doo dah come from? The first records of the word doodah come from around 1900s. Its origin is uncertain. Today, the word is especially used to refer to small, physical objects, but its ambiguous nature means it can be used for all kinds of things (which is really the point of a word like doodah).

Does Disney own The Lion Sleeps Tonight? South African lawyer Owen Dean said on Thursday the settlement was reached with New Jersey-based Abilene Music, which holds the copyright to The Lion Sleeps Tonight which in turn licensed it to the Walt Disney Corporation.

What is the meaning of the lyrics of Mbube? Scholar David Düsing translates it as “wake up.” According to Düsing, the last king of the Zulus, Chaka, was known as “the Lion.” Düsing explains: “Following his death, a legend arose that 'the Lion' was only sleeping and would one day awaken.” However, Linda's youngest daughter translates “mbube” as “stay away.” She ...

Who sang "The Lion Sleeps Tonight" in the Disney movie? "The Lion Sleeps Tonight" is a song originally written by Solomon Linda as "Mbube" that was sung by Lebo M with his South African choir. The song was first used in The Lion King franchise by Timon and Pumbaa, who sung the song in the original film.

Who made The Lion Sleeps Tonight famous? After spreading deeper into the US , another set of musicians, doo wop group the Tokens, added English lyrics, creating the 1961 US No 1 hit The Lion Sleeps Tonight, although Linda's name was absent from the credits. Three decades later the song would become a centrepiece of Disney's animated classic The Lion King.

Did Frankie Valli sing The Lion Sleeps Tonight? The Lion Sleeps Tonight — Frankie Valli & the Four Seasons | Last.fm.

Who sang the original Simba? The actor was playing a young Michael Jackson when Elton John spotted him. Three decades later, the new attention to his legacy is “gratifying.”

What does Hakuna Matata mean in Africa? 'Hakuna matata' is actually a phrase in the East African language of Swahili that literally means “no trouble” or “no problems”.

What does Mufasa mean in Zulu? Simba means lion, Nala means gift, and Mufasa means king. And our teachers of the meaning of hakuna matada need a mention here too: Timon means respect, while Pumbaa means slow-witted.

What does simba mean in Swahili? Simba too, is a very literal translation, it's simply the Swahili word for lion. In fact, many of the lovable (and some not so lovable) Disney film's character's names are from the beautiful Swahili language, the predominant language spoken in East Africa – specifically Kenya and Tanzania.

What happened to Solomon Linda? Illness and death During a performance in 1959, Linda collapsed. He was later diagnosed with kidney failure. His family suspected that he was bewitched by his musical rivals. Despite the popularity and wide use of the song, Linda died impoverished in 1962 of kidney failure.

What does a wimba way mean? In case you were wondering, 'a-weema-weh' is a nonsense, and is attributable to the mishearing of the original song's chorus of "Uyimbube", which means "you're a lion". It is the evening of February 9 as I write this article, I wonder whether the lion is sleeping in the South African jungle tonight.

What does uyimbube mean? Their version was called Wimoweh, a mishearing of the original lyrics of the chorus "Uyimbube", meaning "You're a lion" in Zulu.

What does wimoweh mean in African? - 5y. "Wimoweh" is a mishearing of the original song's chorus of "Uyimbube"... Zulu for, 'You are a lion'. The song we know as "The Lion Sleeps Tonight" or as "Wimoweh" was written in the 1920s by Solomon Linda a South African singer of Zulu origin.

Did Robert John sing "The lion Sleeps" tonight? He then turned to songwriting for such established artists as Bobby Vinton and Lou Rawls. John signed with Atlantic Records in 1971 and drew closer to making his lifelong dream a reality when he recorded "The Lion Sleeps Tonight," which rose to No. 3 on the Hot 100.

Did Frankie Valli sing The Lion Sleeps Tonight? The Lion Sleeps Tonight — Frankie Valli & the Four Seasons | Last.fm.

Who originally played Simba? The role of Simba was originated by Scott Irby-Ranniar and Jason Raize, with Irby-Ranniar portraying young Simba and Raize

portraying adult Simba.

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Did Billy Joel sing The Lion Sleeps Tonight? Watch Billy Joel and Jimmy Fallon's perfect "The Lion Sleeps Tonight" cover here. What started off as a gimmick — using an app to loop their voices — turned into a beautiful duet between Fallon and Joel.

Which statement best describes the controversy around the song "The Lion Sleeps Tonight" as outlined in the article? Final answer: The controversy over 'The Lion Sleeps Tonight' is complex, tied to cultural representation and ownership, with no definitive right viewpoint, hence the correct answer is b. The controversy is complex with no single viewpoint being the only right one.

Who is the high voice in The Lion Sleeps Tonight? Darian's most widely distributed recording by far, although it was made anonymously, was the Tokens' 1961 hit single “The Lion Sleeps Tonight” (“Wimoweh”), on which she provided the extremely high wordless soprano vocal during the saxophone solo in counter-melody to the lead.

Does a woman sing in The Lion Sleeps Tonight? She appeared in several television productions of musicals and operas from the 1950s to the 1970s. Darian also sang the female soprano portion on The Tokens' 1961 #1 hit "The Lion Sleeps Tonight".

Did tight fit sing The Lion Sleeps Tonight? Later in the year, record producer Tim Friese-Greene recorded a version of the song "The Lion Sleeps Tonight" with another group of session singers. The singer was Roy Ward, the former drummer and percussionist from the British 1970s band City Boy. The song was released in early 1982, again under the name Tight Fit.

Who did the singing voice for Simba in the original? When Jason Weaver arrived at his middle school in Chicago wearing a sweatshirt emblazoned with "The Lion King" logo in 1993, his classmates sneered. The apparel had been a gift from Disney when Weaver recorded the singing voice of young Simba, but the blockbuster animated film had yet to be released.

Is Simba voiced by a girl? Simba (voiced by Matthew Broderick as adult Simba in the films; Jonathan Taylor Thomas as a cub in The Lion King; Matt Weinberg as a cub in The Lion King 1½; Cam Clarke in Timon & Pumbaa and Kingdom Hearts II, as well as his singing voice in The Lion King II: Simba's Pride; Rob Lowe in The Lion Guard; Donald Glover in ...

How much royalties did the voice of Simba get? Weaver said his mother was wise enough to notice that Disney was rereleasing some of its classics and renegotiated her son's salary so he received \$100,000 up front and a share of royalties. Over time, Weaver said, the deal has paid off, and he's made well more than \$1.9 million from royalties.

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