

DC OR AC MAGNETISING WAVEFORMS IN MAGNETIC PARTICLE INSPECTION

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What is the difference between AC and DC magnetic particle inspection? What is the difference between using AC and DC when using a Yoke? Several current forms can be used in magnetic particle inspection. Alternating current (AC) is used to detect surface defects, whereas rectified current and direct current (DC) are used when defects are likely to be sub-surface.

Why is the use of DC better than AC in the magnetic particle inspection? DC (Direct Current)—full wave. Also called FWDC, full wave DC is used to identify flaws that are just underneath the surface of materials, since it can magnetize materials more deeply than AC. The depth of magnetic penetration for DC is dependent on the amount of current running through the material.

What is the difference between AC and DC magnetization? Basically, the difference between an AC and DC magnetic field are that a DC magnetic field emanates from the earth naturally that is what allows a compass to find magnetic North; while AC magnetic fields emanate from man made electrical systems (power lines, transformers, computers, and anything with an electric motor) ...

What are the two types of magnetizing methods in magnetic particle inspection? Direct magnetization occurs when the electric current is passed through the test object and a magnetic field is formed in the material. Indirect magnetization occurs when no electric current is passed through the test object, but a magnetic field is applied from an outside source.

What is an advantage of AC equipment over DC during magnetic particle inspection? It is without doubt easier to see defect indications having used A.C. magnetising than the diffuse defect indications when using D.C. It is worth noting that in current flow magnetising, the centre of the piece is flux free.

What is the difference between AC and DC testing? The main difference between the two tests is that High Voltage AC Hipot test applies an alternating voltage to the cable at a frequency between 50 to 60 Hz. On the other hand, a High Voltage DC Hipot test applies a direct voltage to the cable.

Why do we prefer AC instead of DC? AC power can easily be step-up or step down with the help of a transformer which is not possible in the case of DC power. Electricity that is coming to our homes is AC because it comes from a far away power generation plant so the loss of energy during transmission is very less in the case of AC power than DC power.

Why is the AC system preferred to DC system? AC can easily step-up or step-down using a transformer but it is not possible in DC. The power loss during transmission in AC is less than compared to DC. The AC is less expensive than DC to generate. AC systems have higher efficiency than DC.

What is the advantage of using AC magnetizing parts? AC is recommended if the surface is rough, because AC gives the particles more mobility than DC. A yoke has an electric coil in the unit creating a longitudinal magnetic field that transfers through the legs to the examined part.

Does AC or DC create a magnetic field? When a switch is thrown and current first flows in a DC circuit, a magnetic field builds up. The field can induce a current to flow in any nearby wire, but only briefly, just during the few instants it takes for the current to get moving.

How do you tell the difference between AC and DC? In DC, the current flows consistently in one direction. Voltage Waveform: AC has a sinusoidal waveform, showing a continuous variation in voltage over time. DC has a constant voltage level without the oscillations seen in AC.

Does permanent magnet use AC or DC? Permanent magnet AC motors (PMAC) use rare-earth magnets embedded into the surface of the rotor, which provides a strong magnetic field around the rotor. PMACs use the natural magnetic field to create motion as opposed to induction motors which induce a magnetic field in the rotor.

What is the difference between AC and DC magnetic particle testing? In ferromagnetic materials, the magnetic field produced by DC generally penetrates the entire cross-section of the component. Conversely, the field produced using alternating current is concentrated in a thin layer at the surface of the component.

What is the standard for magnetic particle inspection? ISO 9934-1:2015 specifies general principles for the magnetic particle testing of ferromagnetic materials. Magnetic particle testing is primarily applicable to the detection of surface-breaking discontinuities, particularly cracks.

What is the most common source of DC current for magnetic particle testing? A battery is the most common source of direct current. The current is said to flow from the positive to the negative terminal, though electrons flow in the opposite direction. DC is very desirable when inspecting for subsurface defects because DC generates a magnetic field that penetrates deeper into the material.

Why is it important to know the difference between AC and DC? AC is easier to transform between voltage levels, which makes high-voltage transmission more feasible. DC, on the other hand, is found in almost all electronics. You should know that the two do not mix very well, and you will need to transform AC to DC if you wish to plug in most electronics into a wall outlet.

What are three advantages of AC compared to DC? Following are the advantages of alternating current over direct current: AC is less expensive and easy to generate than DC. AC can be transmitted across long distances without much energy loss, unlike DC. The power loss during transmission in AC is less when compared to DC.

What are the two advantages and two disadvantages of AC over DC? The AC is sinusoidal, that's why its sign changes in every half cycle. DC remains in one domain

only. One of the advantages of ac current is that it can be used to recharge the rechargeable battery but one big disadvantage is that its shock is attractive which can even cause death.

Why is AC preferred over DC? AC can be easily transformed to DC with the help of rectifiers whereas in DC it is not possible. AC can be easily stepped up or stepped down by transformers whereas in DC it is not possible because transformers work on a changing emf principle. Generation of AC is cheaper than DC power.

Should I use AC or DC? Direct current (or DC) is better than alternating current (AC) for some applications — such as storing electricity in batteries. AC electricity still remains the current of choice for most homes and businesses because of existing grid infrastructure and because it's cheaper and easier to transmit than DC.

What are three main differences between AC and DC? The power factor of AC is 0 to 1 While DC is Constant Zero. The AC current is generated by the alternator while the Photovoltaic cells, generators, and batteries generate DC current. The AC load can be capacitive, inductive, or resistive but the load on DC is always resistive.

How are AC and DC traces different? On a chart, DC is represented by a flat, horizontal line. Meanwhile, AC is the result of the gradual switching of the positive and negative terminals of the power source. As the terminals change state, the flow of the current diminishes and reverses direction. The AC is reflected by a sinusoidal wave on the chart.

What is the difference between the magnetic field from DC and AC current? As for stronger, DC is constant, while AC is alternating and falling in amplitude in the cycle, so DC will give the stronger field, except at the peak voltage of the AC cycle, when AC will be stronger. At the RMS voltage they will be equal but maybe of opposite sign, depending on the part of the ac cycle.

How can you tell the difference between AC and DC meter in a lab? In this case, to determine AC or DC, you'll need a multimeter or at least a DC voltmeter. Just connect it to the output and look at the readings. If there is no deflection, then the output is AC and vice versa. Designed to measure volts, amps, and ohms, multimeters are necessary for any type of electrical work.

What is the difference between AC and DC GE? In an AC generator, the electrical current reverses direction periodically. In a DC generator, the electrical current flows only in one direction. In an AC generator, the coil through which the current flows is fixed while the magnet moves. The construction is simple and costs are less.

SCOR Overview (APICS)

What is the Supply Chain Operations Reference (SCOR)?

SCOR is a framework developed by the Supply Chain Council (now APICS) that provides a common language and set of metrics for evaluating and improving supply chain performance. It defines a standard set of processes and performance measures that can be used by organizations to assess and benchmark their supply chain operations.

What are the Key Elements of SCOR?

SCOR consists of four key elements:

- **Processes:** A hierarchical framework of 35 supply chain processes grouped into five top-level processes: Plan, Source, Make, Deliver, and Return.
- **Performance Metrics:** Over 100 metrics that measure the efficiency and effectiveness of supply chain operations.
- **Best Practices:** A repository of industry-proven best practices and case studies for improving supply chain performance.
- **Gap Analysis:** A process for comparing an organization's performance to SCOR benchmarks and identifying areas for improvement.

How Can I Use SCOR to Improve My Supply Chain?

SCOR provides a structured approach for organizations to evaluate and improve their supply chain operations. By using the SCOR framework, organizations can:

- Map their own supply chain processes to the SCOR model.
- Identify gaps between their current performance and SCOR benchmarks.
- Develop and implement improvement initiatives to close the gaps.

- Track progress and measure the impact of improvements.

What Resources Are Available for Learning About SCOR?

APICS offers a variety of resources for learning about SCOR, including:

- **SCOR Training and Certification:** APICS offers training and certification programs for professionals who want to master SCOR concepts and practices.
- **SCOR Online Resources:** The APICS website provides access to a wealth of SCOR-related resources, including articles, videos, white papers, and case studies.
- **SCOR User Group:** APICS hosts a user group for professionals who use SCOR in their organizations, providing a forum for sharing best practices and networking.

Conclusion

SCOR is a powerful tool for organizations looking to improve their supply chain performance. By providing a common framework, metrics, and best practices, SCOR helps organizations identify areas for improvement and develop strategies to enhance their supply chain operations.

What is a JBoss server used for? JBoss, also known as WildFly, is an open-source Java-based application server and runtime environment developed by Red Hat. It provides a platform for hosting and running Java applications, particularly enterprise-level applications.

How to download and install JBoss?

How to install JBoss 7?

What is JBoss configuration? JBoss AS uses standalone scripts to set defaults, but you can get around this by inputting the following command in the configuration file, which is located in the configuration directory: `-c=name-of-config.xml`.

Do people still use JBoss? Two of the most widely used Java application servers today are Apache Tomcat and Red Hat's JBoss Enterprise Application Platform.

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Is JBoss outdated? JBoss 4.2 is a very old and outdated version and it only tested with JDK 1.5 and 1.6 version. If you are upgrading your JDK to 11 then you should update the JBoss to 7.3 version which is the latest available GA release from Red Hat.

What is the difference between Tomcat and JBoss? The application server, web server and servlet container are some terms used in web application development. Both Tomcat and JBoss are used for deploying Java applications. The difference between Tomcat and JBoss is that Tomcat is a servlet container and a web server, while JBoss is an application server.

How to setup a JBoss server?

Does JBoss run on Windows? Before installing JBoss Web Server on Microsoft Windows, you must first install a supported Java Development Kit (JDK). For a list of supported configurations, see the Red Hat Customer Portal article: JBoss Web Server 3 Supported Configurations.

How to start JBoss 7? To start up a JBoss AS 7 managed domain you need to execute the \$JBOSS_HOME/bin/domain.sh script, and to start up a standalone server use \$JBOSS_HOME/bin/standalone.sh. This will start it up using the default configuration.

How to configure datasource in JBoss 7?

How to configure JBoss as a service in Windows?

How to deploy on JBoss server? On the details page for the selected JBoss server instance, open the Inventory tab. In the Create New drop-down menu, select the item for - Web Application (WAR) or - Enterprise Application (EAR), as appropriate. In the resource form, enter the information for the application to be deployed.

What is JBoss deployment structure? JBoss Deployment Structure File xml is a JBoss specific deployment descriptor that can be used to control class loading in a fine grained manner. It should be placed in the top level deployment, in META-INF (or WEB-INF for web deployments). It can do the following: Prevent automatic

dependencies from being added.

Is JBoss a web server or application server? JBoss EWS may be deployed as a standard enterprise web server, a simple Java application server, or an enterprise open source application infrastructure. Key components: Apache Tomcat – including Java Servlet and JavaServer Pages.

Where is JBoss used? JBoss EAP includes everything needed to build, run, deploy, and manage enterprise Java applications in a variety of environments, including on-premise, virtual environments, and in private, public, and hybrid clouds. JBoss EAP is based upon the popular open source project WildFly.

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What is the difference between Apache and JBoss? Apache is an open source software organization, hosting and shepherding different open source projects. JBOSS is a Java application server.

What is the use of JBoss tool? What is JBoss Tools? JBoss Tools is a set of plugins for Eclipse that complements, enhances and goes beyond the support that exists for JBoss and related technologies in the default Eclipse distribution.

How profitable is the flower industry in Ethiopia? Currently, floriculture generates around 80 percent of Ethiopia's earnings from horticulture. The export of cut flowers accounted for the majority of the revenue, with the sector generating 225 million USD. The level of production has made Ethiopia the sixth highest rose exporter in the world and the second in Africa.

What countries are the main investors in flowers in Ethiopia? Berhanu said the competitive advantages are attracting foreign flower growers. “They are coming from Kenya, Tanzania and Uganda and from Ecuador,” Mitiku said. The Netherlands, which is the world center of the flower trade, is also investing in local flower farms.

What are the profitable agricultural business in Ethiopia? The cultivation of blueberries and the production of sunflower oil are two of the biggest agricultural

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opportunities in Ethiopia, according to Nuradin Osman, founder and CEO of Grosso Foods, an Africa-focused agribusiness company with its headquarters in the Netherlands.

What are the high value crops in Ethiopia? Coffee is Ethiopia's number one source of export revenue, generating about 30-35 percent of the country's total export earnings and directly or indirectly contributing to the livelihood of a quarter of the country's population. Ethiopia's coffee production for 2022/23 (Oct-Sep) is estimated at 496,200 metric tons.

What is the best profitable business in Ethiopia?

Which flower is most profitable?

Is Ethiopia a good country to invest in? What to consider if you invest in Ethiopia. Among the reasons to invest in the country there are: one of the fastest growing economies in the world, with GDP growth averaging 10% in the last decade according to the IMF.

Who is the biggest investor in Ethiopia? Noting that China remains the top source of foreign direct investment (FDI) in Ethiopia, Shenkute said Chinese companies are investing in modern industrial parks in Ethiopia, including in the eastern industrial zone which is the catalyst for economic development and creating job opportunities for local citizens.

What is the biggest flower market in Africa? Discover a world of fresh flowers, exquisite decor, and unparalleled services at Multiflora Mall. As Africa's largest flower market, we bring together the best of wholesale and retail flower offerings, event planning, and much more, all under one roof.

What are major problems of Ethiopian agriculture? The farming systems are facing constraints such as small land size, lack of resources, and increasing degradation of soil quality that hamper sustainable crop production and food security. The effects of climate change (e.g., frequent occurrence of extreme weather events) exacerbate these problems.

What is the main cash crop in Ethiopia? In Ethiopia, coffee is seen as green gold for the nation; it has been and remains the leading cash crop and export commodity,

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accounting for about 4 percent on average of Ethiopia's gross domestic product (GDP), 10 percent of agricultural production, and about 37 percent of total export earnings over the past decade.

How much do Ethiopian farmers make? The living income in Ethiopia is estimated by the WageIndicator.org is connected to be 4,847 Birr per month (for a family) in rural Ethiopia. However, the average farmer earns less than the living income at 2,954 BIRR per month.

What is Ethiopia's most valuable resource? Coffee, which is native to Ethiopia, is the single most important export. Subsistence livestock raising, the third agricultural activity, is important in the peripheral lowlands of Ethiopia.

What are horticulture crops in Ethiopia? Although Ethiopia has a long tradition of producing fruits; like banana, pineapple, mango for home consumption and neighboring countries export, it is only recently that the investment has been made in large scale production and the production of less traditional fruits including strawberries, table grapes, and passion ...

What are the highest value exports of Ethiopia? Ethiopia main exports are gold (21 percent of total exports) and coffee (19 percent). Others include: live animals, oilseeds, flowers and khat. Ethiopia main export partner is Switzerland (21 percent of total exports) mainly for export of gold.

Which investment is best in Ethiopia? Priority areas for investment: Textile & apparel, leather & leather products, agro- processing, pharmaceuticals, chemical products, metal & engineering industry, electronics & electrical products, paper & paper products, and construction materials.

How much money do I need to start a business in Ethiopia? Any foreign investor is required to allocate a minimum capital of USD 200,000. – (two hundred thousand) for a single investment project. However, if the foreign investor is jointly investing with a domestic investor, the minimum capital required of a foreign investor is USD 150,000. – (one hundred fifty thousand).

How does Ethiopia make most of its money? Ethiopia's economy is based on agriculture, which accounts for 46% of GDP and 85% of total employment.

How much money can a flower farm make? Cut flowers are one of the most profitable crops you can grow, with growers across the United States reporting sales of \$25,000 to \$30,000 per acre. This book contains all the essential information you need -- planting, tending, harvesting, pricing, and selling flowers.

Can you make money in the flower business? Yes! Flower shop owners can make money when they ensure their product offerings align with their clients needs, drive revenue, regularly use a sound pricing strategy, and manage their expenses.

What flower sells for the most? According to 2019 data, tulips were the best selling cut flower in the United States that year, bringing in revenues of over 65 million dollars. Oriental Lilies and Gerbera Daisies came in second and third, respectively.

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What is the largest flower farm in Ethiopia? Sher Ethiopia PLC | The largest rose grower in the world At Sher Ethiopia we grow roses. Approximately 12,500 employees grow, harvest, grade and pack roses at three farms.

Can you make money flower farming? Flower farming is scaleable, meaning it can become a full time, living wage generating business or it can be a way to make supplemental income as a side hustle.

What is the #1 most sold cut flower? What's the best-selling cut flower in America? Tulips, followed by lilies and gerbera daisies. So, when your customers clamor for these varieties year-round, consider offering their silk counterparts too.

Which country is famous for selling flowers to the world? Netherlands: The Netherlands stands as the global leader in flower production, renowned for its vibrant tulip fields and advanced horticultural practices.

What is the largest flower business in the world? The Netherlands remains the center of production for the European floral market, as well as a major international supplier to other continents. The flower auction at Royal FloraHolland is the largest flower market in the world.

Where do florists make the most money?

How can I make my flower business profitable?

What is the flower industry in Ethiopia? The report of Petal Republic (2022) placed Ethiopia as the fifth-largest producer and exporter of flowers in the world, after the Netherlands, Colombia, Ecuador and Kenya. Despite its significance, the industry is having problems with sustainability in terms of people, planet, and profit issues.

What is the rarest flower in Africa? Pelargonium heterophyllum is probably the rarest and most threatened hoarea in South Africa at present and is one of South Africa's rarest and most endangered plants. It may become extinct in the wild if the habitat degradation and destruction by crop cultivation, which is causing it to decline, continues.

Who is the largest exporter of flowers in Africa? Kenya and Zimbabwe are the leading flower exporters in Africa. South Africa, Uganda, Tanzania and Zambia are also major producers, while some other African countries export a much smaller volume.

What is the popular flower in Ethiopia? The national flower of Ethiopia is the calla lily, and is one of the most prominent flowers in funerals much like other countries around the world. It is also one of the biggest floral exports of Ethiopia along with ginger, jasmine, and pyracantha (berries and flowers).

What plant is only found in Ethiopia? Trees known only from Ethiopia include Erythrina brucei (iNaturalist), Millettia ferruginea (ResearchGate), Euphorbia

uniglans (fig.

What is Biden's flower in Ethiopia? Bidens macroptera, or adey abeba, is a flowering plant native to Ethiopia. In Ethiopia, adey abeba symbolizes the end of the rainy season and the start of Spring (???)

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