

IRRIGATION ENGINEERING

MULTIPLE CHOICE QUESTIONS

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What are the important formulas for irrigation engineering?

What are the 3 different designs of irrigation system? There are three commonly used methods: surface irrigation, sprinkler irrigation and drip irrigation.

Which of the following is the quantity of a good irrigation method? Increased yield is good quality of irrigation system, while drainage troubles, leached fertilizers and soil erosion are not the good quality of a irrigation method. Inland navigation is an advantage system of irrigation system. By eliminating the deficiency of water, Irrigation manages to give fast manufacturing.

What is another name for a perennial irrigation system? The perennial irrigation is also called as Controlled Irrigation. Flood irrigation also called inundation irrigation is an irrigation method that intentionally creates a flooded land condition. This makes the soil completely saturated.

What are the 3 main components of an irrigation system? An automatic sprinkler system is made of 3 main lawn sprinkler system components: a controller, valves and sprinklers. When the Controller reaches a programmed start time, it sends a signal to one of the valves telling it to open.

What are the 5 general types of irrigation? In this article, we will provide a comprehensive overview of different irrigation methods: surface irrigation, pivot irrigation, sprinkler irrigation, drip irrigation, and subsurface drip irrigation. Let's dive into the details of each method before exploring their advantages and disadvantages.

What are the four basic methods of irrigation? Four methods of irrigation include surface irrigation (basin, bordered, uncontrolled flooding, and furrow irrigation), sprinkler irrigation, drip/trickle irrigation, and subsurface irrigation. There are many benefits of irrigation, but irrigation can also cause an alteration in the surrounding landscape.

What is the most efficient irrigation method? Drip irrigation is the most water-efficient way to irrigate many different plantings. It is an ideal way to water in clay soils because the water is applied slowly, allowing the soil to absorb the water and avoid runoff. Drip devices use a fraction of the water that overhead spray devices use.

What is the main principle of irrigation? By irrigating, the soil water storage in the plant root zone is replenished. Instigated by the sun and photosynthesis, plants abstract soil moisture with their roots. This triggers a nutrient flow through the stem to the leaves, from where the water is transpired back to the atmosphere.

Which type of irrigation is 95% efficient?

What has the highest irrigation efficiency? Drip irrigation has the highest irrigation efficiency. Drip irrigation is a type of micro-irrigation system that has the potential to save water and nutrients by allowing water to drip slowly to the roots of plants. Either from above the soil surface or buried below the surface.

What is the best soil for irrigation? A well drained and aerated subsoil, preferably to 1m depth, with good water holding capacity. Usually a loam, clay loam or non-sodic clay. The presence of limestone in the subsoil can be desirable, as these soils have the ability to drain well but also store water within their structure.

What are irrigation pipes called? Agricultural irrigation pipe is used to convey and distribute water like gated or flexible pipe, which are widely called poly pipes. They are usually made of aluminum and range in diameter from 6 to 12 inches.

What are irrigation sprinklers called? An irrigation sprinkler (also known as a water sprinkler or simply a sprinkler) is a device used to irrigate (water) agricultural crops, lawns, landscapes, golf courses, and other areas. They are also used for cooling and for the control of airborne dust.

What is the name of the most advanced form of irrigation? Subsurface drip irrigation (SDI) is the most advanced method of irrigation.

What are the two main types of sprinkler systems? Wet pipe, dry pipe, pre-action, and deluge are four types of fire sprinkler systems. Each of these systems helps prevent flames from spreading and reduces fire damage.

What is the main valve for the irrigation system? A master valve is an electric valve installed at the main water supply for the irrigation system. A master valve will greatly reduce any water loss due to a leaky station valve because the leaky station valve can only leak while the master valve is providing pressure to the system.

What is the most important part of an irrigation system? The most important part of a successful irrigation system is management based on knowledge and observations that are acted upon quickly. Crop yields are maximized when soil moisture meets plant needs consistently throughout the growing season. Stressed plants use water less efficiently than unstressed plants.

What are the 4 modern methods of irrigation? The modern methods of irrigation include – surface irrigation, drip irrigation, sprinkler irrigation, subsurface irrigation.

What is moat irrigation? - Moat: It is also a traditional irrigation method. It is also called a pulley system as a pulley is used to draw water from the sources. It consists of a rope and pulley. At one end of the rope, a bucket is tied and another end is pulled by the animals to draw water.

What is the most common irrigation system? Currently, surface irrigation is the most commonly used type of irrigation system for agriculture, accounting for 85% of the world's irrigated land.

What is the formula for irrigation calculation? Step 2: Calculate the irrigation water need, both in mm/month and mm/day, using the formula: $IN = ET_{crop} - P_e$; e.g. Feb: $IN = 69 - 2 = 67$ mm, etc.

What is the Manning's formula in irrigation engineering?

What is the formula for irrigation efficiency? Irrigation efficiency (E_a) can be calculated by dividing the crop irrigation requirement (CIR) by the total water use (subject to the extent and validity of the water right).

What is the formula for duty of irrigation? For example, if 3 cumecs of water supply is required for a crop sown in an area of 5100 hectares, the duty of irrigation water will be $5100/3 = 1700$ hectares/cumecs, and the discharge of 3 cumecs will be required throughout the base period.

Textbook of Veterinary Physiology: Q&A

Q: What is the textbook "Textbook of Veterinary Physiology" used for?

A: "Textbook of Veterinary Physiology" is a comprehensive textbook that provides a detailed overview of the physiological systems of animals, with a specific focus on domestic animals. It is designed for veterinary students, veterinary practitioners, and other professionals in the field of veterinary medicine.

Q: What are the key features of the textbook?

A: The textbook covers a wide range of topics, including the cardiovascular, respiratory, gastrointestinal, urinary, and reproductive systems. It includes detailed explanations of physiological processes, illustrated with diagrams and tables. Additionally, the textbook offers self-study questions, case studies, and clinical applications to help readers understand and apply the material covered.

Q: Is the textbook suitable for different levels of veterinary students?

A: Yes, the textbook is designed to be accessible to students at different levels of study. It provides foundational knowledge for veterinary students starting their studies, and more advanced concepts for students nearing graduation. The textbook also serves as a valuable reference for veterinary practitioners seeking to refresh their understanding of physiology.

Q: What are the benefits of using the textbook?

A: Using "Textbook of Veterinary Physiology" offers several benefits, including:

- A comprehensive understanding of animal physiology
- Clarity and organization in the presentation of material
- Self-study tools to reinforce learning
- Clinical applications that connect theory to practice

Q: Where can I obtain the textbook?

A: "Textbook of Veterinary Physiology" is available for purchase through various online retailers and bookstores. It is also available as an electronic version for convenient access on laptops or tablets.

What is the summary of the phantoms in the brain probing the mysteries of the human mind? "Phantoms in the Brain" by V.S. Ramachandran and Sandra Blakeslee is a fascinating journey through the human brain, exploring the mysteries of perception, consciousness, and reality. It delves into the incredible stories of patients with bizarre neurological disorders, providing insights into the workings of the mind.

What genre is the phantoms in the brain? Phantoms in the Brain: Probing the Mysteries of the Human Mind (also published as Phantoms in the Brain: Human Nature and the Architecture of the Mind) is a 1998 popular science book by neuroscientist V.S.

What is the summary of the Phantoms? Jenny and Lisa Paige, two sisters, return to Jenny's hometown of Snowfield, California, a small ski resort village nestled in the Sierra-Nevada Mountains where Jenny works as a doctor, and find no one alive. The few bodies they find are either mutilated, or reveal some strange form of death.

What rumor surrounded this place that gave him the inspiration for the phantom? Another rumor that inspired Leroux is the story of a ghost who haunts the Palais Garnier. Not only did the tale inspire him, but Leroux became obsessed with proving that the ghost was real.

What is the phantoms story? Based on a 1910 novel by Gaston Leroux, The Phantom of the Opera tells the tale of a disfigured musical genius who haunts the Paris Opera House. Mesmerised by the talents and beauty of the young soprano

Christine, the Phantom lures her as his protégé and falls fiercely in love with her.

What is the phantom's alter ego? Lee Falk originally intended the Phantom's alias to be the rich playboy Jimmy Wells (years before the similar Batman was created). However, halfway through his first story, "The Singh Brotherhood", he decided to move the Phantom to the jungle and gave him the name of Kit Walker.

What is the phantom's personality? Living under and in the walls of the opera house, he interacts very rarely with its people, and even then only by written letters. However, the arrival of the lovely Christine Daae stirs something in the Phantom's heart, and suddenly, he has much more to say. Personality... secretive, passionate, and controlling.

True Ghost Stories and Hauntings: Horrifying Accounts from the Last 300 Years

Q: What are some of the most spine-tingling true ghost stories on record?

A: From the Amityville Horror to the Enfield Poltergeist, history is replete with chilling accounts of paranormal hauntings. One of the most infamous is the Bell Witch, a vengeful spirit that terrorized a Tennessee family in the 1800s. Its manifestations included poltergeist activity, physical attacks, and even demonic possession.

Q: How do people claim to have experienced ghostly encounters?

A: People who claim to have witnessed paranormal activity report a wide range of experiences. These can include seeing apparitions, hearing disembodied voices, feeling icy presences, and experiencing unexplained smells or disturbances. Some may also experience physical symptoms such as nausea, headaches, or paralysis.

Q: Are there any scientific explanations for these paranormal events?

A: While there is no definitive scientific consensus, some researchers have proposed theories such as electromagnetic interference, infrasound vibrations, and psychological factors to explain reported hauntings. However, many believe that these explanations cannot fully account for the full range of paranormal phenomena.

Q: What are some tips for dealing with a potential ghost encounter?

A: If you believe you are experiencing a haunting, it is important to stay calm and rational. Avoid feeding into the fear, as this can make the situation worse. Try to document the events you experience, including dates, times, and specific details. Consider seeking professional help from a paranormal investigator or therapist if the activity becomes overwhelming.

Q: Is there any way to prevent or protect yourself from ghost encounters?

A: While there is no guaranteed way to prevent a ghost encounter, some people believe in taking certain precautions. These include cleansing your space with sage or holy water, using protective amulets or talismans, and avoiding areas where hauntings have been reported. However, it is important to remember that there is no scientific evidence to support the effectiveness of these methods.

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