

# PROCESS DESIGN OF CRUDE OIL ELECTROSTATIC DESALTERS

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**What is the process of desalting crude oil?** Crude oil to be desalted is heated to a temperature of 100-150 °C and mixed with 4-10% fresh water, which dilutes the salt. The mixture is then pumped into a settling tank where the salt water separates from the oil and is drawn off.

**What is the process of electrostatic Desalting?** Therefore, electrostatic desalting is one of the most popular methods to remove saline water from crude oil by applying an external electrostatic field. This increases the rate of collision of water droplets thereby improving the coalescence.

**What is the process of processing crude oil?** The crude is heated by a furnace and is sent to a distillation tower, where it is separated by boiling point. Then the material is converted by heating, pressure or a catalyst into finished products including fuels like gasoline and diesel, and specialty products like asphalt and solvents.

**What are the three stages of desalting process?** The three stages of desalting are: adding dilution water to crude; mixing dilution water with crude by a mixer; dehydration of crude in a settling tank to separate crude and sediment and water (S&W).

**How does electric desalter work?** Desalter transformer working principle In crude oil-water emulsion water mixed with salt content is an electrically conductive liquid and oil is non-conductive. When 15000-16500 volts of current passes through oil-water emulsion water droplets begin to accumulate and separate from the oil-water interface.

**What is the principle of Desalting?** Desalting occurs when buffer salts and other small molecules are removed from a sample in exchange for water (with the resin being pre-equilibrated in water). Buffer exchange occurs when the buffer salts in a sample are exchanged for those in another buffer.

**What is the process of an electrostatic filtering system?** The electrostatic filter itself has a charge opposite to the charge given to the particles. This causes the charged particles to be attracted to the inside of the filter, holding them there until they're removed.

**What is the mechanism of electrostatic filtration?** In the collection section, positively charged metal plates or fins repel the positively charged particles, and alternating grounded fins attract the positively charged particles. Contaminants remain trapped on the grounded fins until the collector cell is washed.

**What are the disadvantages of electrostatic separation?** One of the main disadvantages of electrostatic separation is that it requires a high degree of control and calibration of the electric field and the feed characteristics. Any variation in the voltage, humidity, temperature, or composition of the feed can affect the separation performance and quality.

**How is crude oil made step by step?** This process begins with the accumulation of organic matter, such as dead plants and animals, on the bottom of ancient oceans and lakes. Over time, the organic matter is buried and subjected to high pressure and heat, which cause chemical reactions to take place and transform the organic matter into crude oil.

**What are 5 basic refining processes?**

**What are the three stages of crude oil?**

**What are the steps in the crude oil desalting process?** The process comprises, consists essentially of, or consists of, the steps of: (1) combining a steam with a fluid to form a first mixture in which the fluid comprises a hydrocarbon, such as a crude oil, and a salt; (2) introducing water into the first mixture to form a second mixture; and (3) separating the hydrocarbon ...

**What are the different types of Desalters?** Desalters typically come in two main types: electrostatic coalescers and chemical desalters. Electrostatic coalescers use an electrical field to promote the coalescence of water droplets, facilitating their separation from the oil.

**What is the pressure control on a Desalter?** The Desalter interface levels are controlled by regulating the amount of salt water (or brine) withdrawn from the bottom. The 1st Stage Desalter pressure is maintained at 14 barg (200 psig) by a pressure controller that adjusts the speed of the Crude Feed Pump.

**What is electrostatic desalter?** Electrostatic desalters are essentially gravity separation devices governed by Stokes law so coalescing drops to form larger drops that settle more rapidly is a key to operational efficiency.

**What is crude desalter?** Crude desalters perform an important role in the initial oil separation and cleaning process by removing salts that can cause significant corrosion damage to downstream processing equipment if left in the process fluid.

**What is the typical salt content of crude oil at the outlet of desalter?** The outlet crude oil from the electrostatic desalter should meet the required specifications and the BS&W and salt content or crude should be less than 0.1–0.2 vol. % and 28 g/m<sup>3</sup>, respectively (Manning and Thompson, 1995).

**What is the process of electric desalting?** In Electrical desalting is the application of high-voltage AC or DC electric fields to concentrate suspended water globules at the bottom of the settling tank. Electric potentials from 12,000 to 35,000 volts are used to promote coalescence. Surfactants are added if the crude has a large amount of suspended solids.

**What is the process of desalting?** The most common desalination processes are distillation and reverse osmosis. There are several methods. Each has advantages and disadvantages but all are useful. The methods can be divided into membrane-based (e.g., reverse osmosis) and thermal-based (e.g., multistage flash distillation) methods.

**How is salt removed from crude oil?** To remove the salt and the water, crude oil undergoes a step known as desalting. In this step the crude oil undergoes an initial

dilution with the addition of clean water. The new diluted mixture is then emulsified so that the salty water initially present in the crude oil comes into contact with the clean water.

**What is the process of Desulfurization of crude oil?** Desulfurization is the process of removing sulfur from crude oil (or its fractions). It prevents contamination and also improves the efficiency of petroleum. Desulfurization removes elemental sulfur and its compounds from solids, liquids and gases.

**How is water removed from crude oil?** At the production facility, the bulk of the water with dissolved salts is removed from the crude oil by gravity separation (i.e., settling) or by centrifuging. The emulsion might also be heated to 35-80° C. to facilitate water separation.

**How is salt removed from crude oil?** To remove the salt and the water, crude oil undergoes a step known as desalting. In this step the crude oil undergoes an initial dilution with the addition of clean water. The new diluted mixture is then emulsified so that the salty water initially present in the crude oil comes into contact with the clean water.

**What is the dewaxing process of crude oil?** Dewaxing is carried out by chilling the oil up to 10-15°C into the crystallizers. Chilling plant is responsible for the low temperature achievement. The crystallizers are equipped with agitation mechanism which is controlled by variable drive so as to have a controlled system and not to break the formed crystals.

## **The Fight by Adam Bagdasarian**

**Question 1: What is the main theme of "The Fight"?** Answer: "The Fight" explores the complexities of violence, guilt, and redemption through the experiences of a young boy who witnesses a brutal attack.

**Question 2: What is the significance of the setting in the story?** Answer: The story takes place in a dilapidated neighborhood, reflecting the underlying themes of urban decay and social inequality that contribute to violence.

**Question 3: How does the narrator's perspective shape the story?** Answer: The story is told from the perspective of a young boy, allowing readers to experience the

events through his innocent and often bewildered eyes, highlighting the destructive impact of violence on children.

**Question 4: How does the story explore the role of guilt and responsibility?**

Answer: The narrator feels immense guilt for not intervening during the attack, questioning his own actions and the boundaries of personal responsibility in confronting violence.

**Question 5: What is the ultimate message of "The Fight"?**

Answer: "The Fight" suggests that violence is a destructive force that leaves lasting scars on both victims and witnesses. It emphasizes the importance of empathy, compassion, and the need to break the cycle of violence through education and community involvement.

**What is the vision according to Myles Munroe?** According to Dr. Myles Munroe, vision is a mental picture of your future. It is the unveiling of God's plan for your life. It is capturing an idea or a clear picture of what can be in the future to propel the present to begin to act towards it.

**What are the principles of leadership Myles Munroe?**

**How did Myles Munroe define purpose?** Munroe emphasizes that purpose is not something we create, but something we discover. It is the reason for our existence, the 'why' behind our being. He believes that everyone has a unique purpose and that we must seek to understand it in order to live a meaningful and impactful life.

**What is the purpose of leadership Myles Munroe?** According to Myles Munroe, leadership is the capacity to influence others through inspiration motivated by a passion, generated by a vision, produced by a conviction, ignited by a purpose.

**What is the basic principle of vision?** Rays of light fall down onto objects and is reflected into all sorts of different directions, and some of those light rays are reflected into our eye, where they are focused onto photoreceptors and lead to some stimulation to the brain, which we interpret as visual perception.

**What is the power of the vision?** That's the power of vision. It brings your world into focus and order to chaos. A clear vision enables you to see everything differently. Your dream will motivate you, even in the most routine of activities.

## **What are the 7 principles of leadership?**

**What is the principle of visionary leadership?** Visionary Leaders Turn the Vision into Reality A visionary leader ensures the vision becomes reality by stating clear goals, outlining a strategic plan for achieving those goals and equipping and empowering each member to take action on the plan at the organizational, team and individual levels.

**What is the mentality of a leader Myles Munroe?** Leadership is influencing others to move from the present to the unknown future. If you cannot make the future more important to the people than the present you cannot lead to them.

**What was Myles Munroe's famous quote?** The greatest tragedy in life is not death, but a life without a purpose.

## **What is the quote of purpose by Myles Munroe?**

**What are the keys to discovering your purpose by Myles Munroe?** Here are some key principles based on Munroe's teachings that can help you find your purpose: Self-Discovery: Take time to explore and understand yourself. Reflect on your values, interests, strengths, and weaknesses. Identify what brings you joy, fulfillment, and a sense of meaning.

**What is the purpose of leadership vision?** Leadership vision sets goals for the team to accomplish within a given period. It offers clarity and focus: It is easy to convince people to work when showing the direction or a defined destination. There are so many life distractions that divert our attention from what we want to achieve.

**What is the difference between a manager and a leader, Myles Munroe?** A manager sees things as they are, but a leader sees things as they should be. A leader is someone who sees a better future and is willing to pay the price to bring that future to the present. According to Dr. Myles Munroe, there's a difference between vision and ambition.

**What is the summary of becoming a leader by Myles Munroe?** Becoming a Leader will help you to uncover principles that will enable you to lead others wisely; develop the tactfulness that generates the response and respect of those you are

leading, and enhance the natural leadership qualities lying dormant within you.

### **The Artist's Complete Guide to Facial Expression: Gary Faigin**

**Question:** What is the fundamental principle of Gary Faigin's approach to facial expression?

**Answer:** Faigin emphasizes the idea of "dynamic tension," where opposing muscle groups create subtle movements and expressions. He believes that understanding this tension is crucial for capturing believable emotions.

**Question:** How does Faigin categorize facial expressions?

**Answer:** Faigin classifies expressions into two main categories: primary and compound. Primary expressions are universal emotions, such as joy, anger, and sadness, while compound expressions are more complex combinations of emotions.

**Question:** What is the importance of muscle anatomy in facial expression?

**Answer:** Faigin stresses the need to study the underlying muscle structure of the face. By understanding the anatomy, artists can accurately depict how muscles move and interact to create expressions. He provides detailed anatomical diagrams and exercises to enhance artists' understanding.

**Question:** How does Faigin guide artists in drawing and painting facial expressions?

**Answer:** Faigin offers practical exercises and techniques to help artists express emotions through their artwork. He explains how to use lines, shapes, and tones to convey different expressions. Faigin also discusses the importance of observing real-life facial movements and using reference materials.

**Question:** What impact has Gary Faigin's work had on the art world?

**Answer:** Gary Faigin's "The Artist's Complete Guide to Facial Expression" has become a widely respected and influential resource for artists of all levels. His approach and techniques have helped countless artists improve their ability to capture human emotion and create expressive works of art.

[the fight by adam bagdasarian](#), [principles and power of vision myles munroe](#), [the artists complete guide to facial expression gary faigin](#)

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