# DESIGN AND OPERATION OF SUBSEA PRODUCTION SYSTEMS GENERAL

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**What is the subsea production system?** Subsea production systems are located on the sea floor rather than on the surface. A subsea production system contains the whole process and all the facilities used for drilling, well completion, field development, and production.

**What is the subsea control system?** An SCM (see Fig. 1.37) provides control, monitoring, intervention, and distribution of hydraulic and electrical power as well as communications. An SCM is an interface between the control system, HPU and EPU, as well as subsea equipment and components such as Christmas trees, valves and actuators, etc.

**What are the operations of oil and gas subsea?** The typical operation of subsea production system can be summarized as follows: Oil, gas and water flow from wellbore to subsea tree, thence to jumper, manifold and flowline, before finally reaching a riser that pipes it to surface for processing.

**What is the latest ISO 13628 1?** ISO 13628-1:2005 Petroleum and natural gas industries — Design and operation of subsea production systemsPart 1: General requirements and recommendations. This publication was last reviewed and confirmed in 2023. Therefore this version remains current.

**What is the world's largest subsea project?** 2Africa submarine cable The world's largest submarine cable, 2Africa runs for 45,000 km, circumnavigating Africa to connect 46 landing points across 33 countries, including the United Kingdom, India, and scores of countries in the Middle East and Africa.

**What is the process of subsea?** In general, a subsea processing system includes components of subsea separation, boosting, compression, and power transmission, with functions of fluid separation, fluid boosting, gas compression, multiphase pumping, sand handling, water removal and injection, etc.

**What is a subsea control system engineer job description?** Support global offshore production operations with identifying control system anomalies through a standard set of monitoring tools and dashboards. Prepare, review, and endorse controls-related, plans, procedures and metrics and intervene where appropriate.

**What is a subsea structure?** These subsea structures are designed to rest on the seafloor supported by gravity. Piled structures use piles driven into the seabed for support, providing a highly stable foundation for subsea facilities. Compliant towers are a type of floating structure designed for ultra-deep waters.

**What does subsea stand for?** NASA Takes a Deep Dive into the Search for Life Many projects at NASA study places on Earth that could be analogous to extraterrestrial locations. The project pulling together ocean and space is called SUBSEA, which stands for Systematic Underwater Biogeochemical Science and Exploration Analog.

**What does a subsea operations engineer do?** Subsea Engineer (DIVE) Develop and oversee comprehensive project plans, ensuring all subsea operations are executed efficiently and safely, meeting management specifications and industry standards.

**What is a subsea job description?** Subsea Engineers are responsible for the design and installation of equipment and structures below the surface of the sea. Provides technical and engineering support and guidance to offshore or on site teams.

**What is a subsea pipeline?** A subsea pipeline (also known as an offshore pipeline or submarine pipeline) is a pipeline that is laid on the seabed or inside a specially constructed trench. The use of pipelines represents a reliable mode of transport of oil and gas.

**What is the most updated ISO?** The goal is to maintain or improve the standard's usability and relevance in the face of advances in technology, changes in the global business environment, and trends in society. Since its initial publication in 1987, there have been 4 revisions. The most current version – ISO 9001:2015 – was published in 2015.

**What is the new ISO standard known as?** ISO 9001 is the world's best-known quality management standard for companies and organizations of any size. ISO/IEC 27001:2022.

**What is the newest ISO?** As of September 2023, the current version of the ISO 9001 standard is ISO 9001:2015.

**Who owns the most subsea cables?** In fact, Google, Facebook, Amazon and Microsoft owned or leased more than half of the undersea bandwidth in 2018. Currently, Google alone owns six active submarine cables, and plans to have eight more ready within two years.

**Who builds subsea cables?** Major submarine cable fabricators SubCom and Alcatel Submarine Networks are North America's two main submarine cable fabricators. The main fabricator in China is HMN Technologies Co., Limited, which is majority owned by Shanghai-listed Hengtong Optic-Electric C Ltd.

**Who is the CEO of subsea?** John Evans, Chief Executive Officer.

**What are subsea operations?** Subsea technology involves fully submerged ocean equipment, operations, or applications, especially when some distance offshore, in deep ocean waters, or on the seabed.

**Is subsea engineering hard?** Subsea engineering is arguably one of the most important yet technically difficult aspects of the offshore petroleum industry.

**What are the risks of subsea?** The primary risk to subsea cables, whether during construction, once laid on the seabed, or once operational, is external third-party damage. The predominant cause is generally from anchor strikes or fishing trawler nets.

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**What are the advantages of subsea system?** The benefits of an SPRS include the potential for reducing CAPEX and OPEX associated with topside facilities, increased design flexibility, improved recovery and production rates, extended field life, reduction of flow assurance problems, debottleneck of topside water treatment constraints, reduction of energy ...

**What is the purpose of the subsea cable?** Today they are used for power transmission to oil rigs, carry power generated from offshore wind farms to power stations, and create inter-country and island connections. Submarine communication cables carry around 90% of the world's cross-continent data traffic.

**What is the difference between subsea and subsurface?** All above ground operations are called surface and all underground operations are called subsurface. This is mostly true for all onshore operations. For the offshore operations the term subsea is rather used for all operations and activities done at or below the sea bed.

**How is NLP used in coaching?** NLP converges neurotransmitters with one's language skills into a strategic amalgamation that empowers one to be in control of their emotions and behavior. In short, with NLP coaching, a person can be completely aware of emotions, control them, and behave without getting influenced or side-tracked by anything.

**How to do NLP on yourself?** A great way to practice NLP on yourself is to act as your own coach. Every day, ask yourself what you want to achieve and what steps you need to take to get there. As you progress towards your goals, regularly check in with yourself to see how you are doing and make necessary adjustments.

**How much does NLP training cost?** NLP training comes in three levels: Practitioner, Master, and Trainer. If you're still starting, NLP Practitioner 4-in-1 Certification is the one you're looking for, it costs $1897. The following level, Master

Practitioner 4-in-1 Certification, builds upon the previous course. It costs $2897.

**How can NLP help with stress?** Neuro-Linguistic Programming NLP provides a number of excellent tools and concepts to empower individuals to cope with or change non-resourceful or negative stress to resourceful or positive resources. With NLP you can change overwhelming, immobilizing feelings into powerful motivating forces.

**Is NLP coaching legit?** NLP has been adopted by some hypnotherapists as well as by companies that run seminars marketed as leadership training to businesses and government agencies. There is no scientific evidence supporting the claims made by NLP advocates, and it has been called a pseudoscience.

**How to use NLP in daily life?**

**Can NLP cure anxiety?** Neuro-linguistic Programming offers a diverse array of techniques that can be particularly effective in managing and reducing anxiety. These methods are designed to help individuals reframe their thought patterns, alter their emotional responses, and develop new, more empowering behaviors.

**What is NLP exercise?** Neuro-linguistic programming (NLP) is a way of changing someone's thoughts and behaviors to help achieve desired outcomes for them. It may reduce anxiety and improve overall wellbeing.

**What is an example of NLP therapy?** Mirroring is an NLP technique that leverages body language to make instant connections and build rapport with anyone. When you're talking to someone, mirror your body language to theirs. If they are high energy, match that energy level. If their body language is relaxed, reflect that.

**What is the downside of NLP?** Ambiguity: One of the most significant challenges in NLP is dealing with ambiguity in language. Words and sentences often have multiple meanings, and understanding the correct interpretation depends heavily on context. Developing models that accurately discern context and disambiguate language remains a complex task.

**Is NLP better than hypnosis?** NLP is generally considered safe because it is a non-invasive approach that does not involve any direct manipulation of the subconscious mind. While both techniques are generally considered safe, hypnosis

can be more dangerous if not performed correctly.

**Can I learn NLP for free?** Discover free Natural Language Processing Courses and learn how computers understand human language. Learn how to create chatbots, translate languages, analyze emotions in texts and more. Earn certificates when you complete the courses.

**How NLP can change your life?** And working with an NLP coach can help you attain the fitness that you desire. They can assist you in setting achievable goals, developing self-discipline, breaking old habits, create new ones, and enhance your self-esteem. And in case you are a sportsperson, then NLP can help you improve teamwork, rehearse success.

**Can NLP heal trauma?** Also referred to as the "Phobia, Trauma and PTSD Treatment", this method has been very successfully used to help people recover from overwhelming events and the associated anxiety. The process involves replaying the visual memory of a painful incident but in entirely different ways than a person usually does.

**How would you use NLP to personally improve your own life?** Visualization is an essential technique in NLP that involves creating vivid mental images to enhance motivation, goal-setting, and performance. By visualizing yourself achieving your goals or engaging in desired behaviors, you can activate your subconscious mind and align your actions with your desired outcomes.

**What is the dark side of NLP?** Here are some of the main dangers: Manipulation and Control: NLP techniques can be used manipulatively to influence the behavior and thoughts of other people. Unethical practitioners may use NLP to manipulate and control people for their own purposes, leading to serious consequences on their decisions and self-esteem.

**What do psychologists think of NLP?** You might come across the term "NLP therapy," but experts don't recognize NLP as a type of psychotherapy. Some consider it pseudoscience, at best — and at worst, a fraudulent and ineffective approach that mainly exists to make money.

**Why is NLP so tough?** Ambiguity and polysemy: Many words and phrases have multiple meanings, making it difficult for NLP models to accurately determine the intended use in a given context. This can result in inaccurate analysis or miscommunication.

**How can I practice NLP at home?** Edit your mental images. Practitioners of NLP believe that thinking of an image of people, events, or other things can help you understand how you feel about them. To do this, picture someone or something that irritates you. Next, make changes to the image in your mind as if you were editing it on a computer.

**Is Alexa an example of NLP?** NLP is how voice assistants, such as Siri and Alexa, can understand and respond to human speech and perform tasks based on voice commands. NLP is the driving technology that allows machines to understand and interact with human speech, but is not limited to voice interactions.

**What is a common example of NLP?** One of the most common NLP examples is translation. In the 1950s, Georgetown and IBM presented the first NLP-based translation machine, which had the ability to translate 60 Russian sentences to English automatically.

**What is the difference between Reiki and NLP?** NLP is about how to change for the better! Your thoughts and feelings shape your experience of the world. Changing the patterns of your thoughts, feelings and actions changes your reality in a positive way. Reiki is one of the most powerful yet gentle ways of healing with energy.

**Is NLP a therapist?** Given the dictionary definition of a therapist is 'a person who treats physical, mental or social disorders or disease', and the definition of a practitioner is 'a person who practises a profession or art', there are very few NLP qualifications which will automatically qualify you as a therapist.

**How to reprogram your subconscious mind to get rid of anxiety?** By recognizing when your subconscious is influencing your actions and emotions, you can actively work to reprogram it for a more positive and productive experience. Through techniques like positive affirmations, visualization, and mindfulness, you can consciously shape your subconscious mind's responses.

**How to lose weight with NLP?**

**What are the 4 types of NLP?** Natural Language Processing (NLP) is one of the most important techniques in computer science and it is a key part of many exciting applications such as AI and chatbots. There are 4 different types of techniques: Statistical Techniques, Stochastic Techniques, Rule-Based Techniques and Hybrid Techniques.

**How to use NLP on someone?** Some of the most common NLP techniques used for influence include mirroring, matching, and pacing. Mirroring is a technique in matching the other person's body language, voice tone, and words. This creates rapport and makes the other person feel like you are similar to them.

**How do you use NLP in training?**

**How is NLP coaching different from therapy?** The Association for NLP writes that "NLP and coaching differ from therapy because they start with a belief the client is OK, well and whole, and simply wants some help moving from where they are now to where they would like to be."

**What is the difference between coaching and NLP practitioner?** Hiring an NLP practitioner is more likely to be for a one-off session to address a particular issue around personal change. An NLP client may experience a dramatic breakthrough at a single intensive session, while coaching tends to have its ups and downs over a period of sessions.

**What is NLP or life coaching?** Life coaching helps coaches to identify the roadblocks that are stopping their clients from achieving their desired outcome. Beyond the recognition of these roadblocks, NLP Coaching allows you to delve deeper and identify the root cause of these roadblocks which when removed, result in a more profound transformation.

**What is an example of NLP therapy?** Reframing Reframing is one of the most remarkable NLP techniques that will take any negative situation. Reframing is about empowering you by changing the mind map into something positive. For example, if you feel nervous speaking in public, you can reframe this situation as an exciting growth challenge.

**What is NLP exercise?** Neuro-linguistic programming (NLP) is a way of changing someone's thoughts and behaviors to help achieve desired outcomes for them. It may reduce anxiety and improve overall wellbeing.

**How to apply NLP techniques?**

**Why is NLP coaching important?** Personal Development: NLP training helps individuals gain self-awareness, overcome limiting beliefs, and develop empowering patterns of thinking and behavior. It promotes personal growth and self-improvement. Improved Problem-Solving: NLP equips professionals with effective problem-solving techniques and strategies.

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**Do therapists use NLP?** Therapists may employ NLP techniques to identify their client's specific PRS and adjust their communication style and therapeutic goals accordingly. Some common NLP techniques include but are not limited to: Anchoring: Associating an external or internal trigger with a healthier response until it becomes automatic.

**Is NLP coaching worth it?** NLP training is often the catalyst that helps people reconnect to their purpose, improve their relationships, get promoted, and/or start and grow businesses. If this interests you and you're prepared to put the time, energy and emotional work into exploring NLP , then you'll benefit significantly.

**Which is better CBT or NLP?** Both counselling and CBT help the individual to gain a conscious understanding of the problem initially by talking through the detail with a practitioner – whereas NLP dosen'™t always require the individual to share at length or work on problems openly in order to for it to be successful (which many individuals prefer) ...

**What is the difference between mindfulness and NLP?** Both often use a relaxed meditative state of mind to introduce positive change. Mindfulness excels at helping us become aware of our inner state and instilling calmness. NLP excels at providing

tools to change our inner state into a desired state.

**What is NLP in mental health?** Neuropsychiatric disorders pose a high societal cost, but their treatment is hindered by lack of objective outcomes and fidelity metrics. AI technologies and specifically Natural Language Processing (NLP) have emerged as tools to study mental health interventions (MHI) at the level of their constituent conversations.

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**Transport Processes and Separation Process Principles: Geankoplis Solution Manual**

**Question 1:** What is the flux of a species through a membrane?

**Answer:** The flux is the rate of mass transport per unit area of membrane surface and is defined as:

```
J = -D(?C/?x)
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where:

- J is the flux (kg/m^2-s)
- D is the diffusion coefficient (m^2/s)
- C is the concentration (kg/m^3)
- x is the distance (m)

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**Question 2:** What is the relationship between the mass transfer coefficient and the Sherwood number?

**Answer:** The Sherwood number is a dimensionless group that characterizes the rate of mass transfer. It is defined as:

```
Sh = hL/D
```

where:

- Sh is the Sherwood number
- h is the mass transfer coefficient (m/s)
- L is the characteristic length (m)
- D is the diffusion coefficient (m^2/s)

**Question 3:** What is the mechanism of filtration?

**Answer:** Filtration is a separation process that uses a porous membrane to separate particles from a fluid. The particles are retained on the membrane while the fluid passes through. The mechanism of filtration is based on the size and shape of the particles and the pore size of the membrane.

**Question 4:** What is the difference between distillation and extraction?

**Answer:** Distillation is a separation process that uses differences in the volatility of components in a mixture to separate them. Extraction is a separation process that uses a solvent to selectively dissolve one or more components from a mixture.

**Question 5:** What is the principle of chromatography?

**Answer:** Chromatography is a separation process that uses a stationary phase and a mobile phase to separate components of a mixture based on their different affinities for the two phases. The stationary phase is typically a packed column or a thin layer of material, while the mobile phase is a liquid or gas that flows through the stationary phase. The components of the mixture are separated based on their different rates of migration through the stationary phase.

The Cultural Creatives: How 50 Million People Are Changing the World

**Who are the Cultural Creatives?**

The term "Cultural Creatives" was coined by sociologist Paul H. Ray in his 1999 book of the same name. Ray defined them as a diverse group of people who share a set of core values and beliefs, including a commitment to individualism, creativity, and social justice. They are typically well-educated, open-minded, and have a strong interest in culture and the arts.

**How many Cultural Creatives are there?**

Ray estimated that there are approximately 50 million Cultural Creatives in the United States. This represents roughly 20% of the adult population. They are found in all walks of life, from artists and musicians to teachers and scientists.

**What is their impact on the world?**

Cultural Creatives are having a significant impact on the world in a number of ways. They are leading the charge for social change, advocating for environmental protection, and promoting peace and understanding. They are also driving the growth of the creative economy, which is estimated to be worth trillions of dollars annually.

**What are some of their key values?**

Cultural Creatives value:

- Individuality and self-expression
- Creativity and innovation
- Social justice and compassion
- Environmental sustainability
- A holistic approach to life

**How can I become a Cultural Creative?**

Becoming a Cultural Creative is a lifelong journey. It involves developing your own unique voice, embracing your creativity, and working to make a positive impact on the world. There is no one right way to become a Cultural Creative, but here are a

few tips:

- Be open to new experiences and ideas.
- Pursue your passions and interests.
- Connect with like-minded people.
- Get involved in your community.
- Stay informed about current events and social issues.

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