

# **HVDC POWER TRANSMISSION SYSTEM 2ND SECOND EDITION BY KR PADIYAR PUBLISHED BY**

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**What is the reference book for HVDC transmission line?** Abstract. The EPRI High-Voltage Direct Current (HVDC) Transmission Reference Book is a state-of-the-art guidebook that provides transmission companies with a comprehensive, single source of technical information and guidance for designing, building, operating, and extending the life of HVDC transmission systems.

**How does HVDC transmission work?** 1.3 Working Principle of HVDC Transmission Station In the HVDC station, the converter transformer steps-up the generated AC voltages to the required level. The converter station takes the electric power from the three-phase AC network and rectifies it to DC, which is then transmitted through overhead lines (or cables).

**Who is the father of HVDC?** August Uno Lamm (May 22, 1904 – June 1, 1989) was a Swedish electrical engineer and inventor. He was sometimes called "The Father of High Voltage Direct Current" power transmission.

**What is the IEC standard for HVDC?** IEC 60071-11:2022 applies to high-voltage direct current (HVDC) systems. It specifies the principles on the procedures for the determination of the specified withstand voltages, creepage distance and air clearances for the equipment and the installations of these systems.

**Why is HVDC better than AC?** Unlike AC, there is no technical limit on the length of cable or overhead line that can be used in HVDC connections, so HVDC has advantages for long transmission distances. On the DC side of the converter, a

reactor is provided to smooth the DC current.

**Why HVDC is not used?** HVDC is less reliable and has lower availability than alternating current (AC) systems, mainly due to the extra conversion equipment. Single-pole systems have availability of about 98.5%, with about a third of the downtime unscheduled due to faults.

**How much does HVDC lose per km?** Losses are lower in HVDC than in HVAC over long distances: for a  $\pm 800$  kV line voltage, losses are about 3% per 1,000 km for an HVDC while they are about 7% per 1,000 km for an HVAC line [4]. For HVDC sea cables, losses are about the same but can reach 60% per 100 km for a 750 kV HVAC sea cable.

**What is a transmission line IEEE?** In electrical engineering, a transmission line is a specialized cable or other structure designed to conduct electromagnetic waves in a contained manner. The term applies when the conductors are long enough that the wave nature of the transmission must be taken into account.

**What is the history of HVDC transmission system?** The modern form of HVDC transmission uses technology developed extensively in the 1930s in Sweden (ASEA) and in Germany. Early commercial installations included one in the Soviet Union in 1951 between Moscow and Kashira, and a 100 kV, 20 MW system between Gotland and mainland Sweden in 1954.

**Which are the configuration of the HVDC transmission line?** HVDC grids may be configured in one of the following ways, similar to current point-to-point HVDC links: 1) symmetrical monopole with ground/metallic return, 2) asymmetrical monopole with ground/dedicated metallic return, and 3) bipolar with ground/dedicated metallic return even though the symmetrical monopolar design ...

**What is reliability in HVDC transmission?** Transient reliability: Both energy availability and transient reliability of existing DC systems with thyristor valves is 95% or more.

## **The Trust Machine: The Technology Behind The Economist**

### **What is The Trust Machine?**

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The Trust Machine is a revolutionary technology developed by The Economist that leverages blockchain technology to enhance trust and transparency in various sectors. It enables users to verify the authenticity and integrity of information, thus minimizing fraud and building confidence in a digital world.

### **How Does The Trust Machine Work?**

The Trust Machine operates on a distributed ledger technology (DLT) platform, which maintains a secure and tamper-proof record of transactions. Data is encrypted and stored across multiple nodes, making it resistant to alteration or manipulation. The use of smart contracts automates the enforcement of agreements, ensuring adherence to predefined terms and conditions.

### **What Industries Can Benefit from The Trust Machine?**

The applications of The Trust Machine extend to numerous industries, including:

- **Supply Chain Management:** Tracking the provenance of goods, ensuring authenticity and reducing fraud.
- **Finance:** Verifying financial transactions, facilitating secure payments, and preventing money laundering.
- **Healthcare:** Managing patient data, ensuring privacy and integrity, and streamlining medical research.
- **Government:** Digitizing public records, enhancing transparency and accountability.

### **What are the Benefits of The Trust Machine?**

The Trust Machine offers several advantages:

- **Increased Trust:** Verifiable data and secure transactions build trust among stakeholders.
- **Improved Security:** Blockchain technology provides a robust and tamper-proof platform.
- **Reduced Fraud:** Smart contracts and data encryption minimize

opportunities for fraudulent activities.

- **Increased Efficiency:** Automated processes and interoperability streamline operations.

### **Where can I Learn More About The Trust Machine?**

For more information about The Trust Machine, including technical details, case studies, and implementation guides, visit The Economist's website or contact their team.

### **The Woman with a Worm in Her Head: True Tales of Infectious Disease**

"The Woman with a Worm in Her Head" by Pamela Nagami is a fascinating collection of true stories that illuminate the devastating impact of infectious diseases. The book explores a wide range of cases, including a woman who unknowingly harbored a parasitic worm in her brain, a young woman who contracted a flesh-eating bacteria, and a doctor who treated patients during the Ebola outbreak in Africa.

#### **1. What is the main theme of the book?**

Nagami's book explores the often hidden world of infectious diseases, shedding light on their devastating consequences and the human toll they take. She weaves together medical knowledge, personal narratives, and scientific advancements to provide a comprehensive understanding of these invisible threats to health.

#### **2. How does the book illustrate the variety of infectious diseases?**

Through the diverse case studies presented, the book showcases the vast spectrum of infectious diseases, from parasitic infections to viral epidemics. Nagami highlights the unique challenges posed by each disease, its symptoms, transmission mechanisms, and potential fatalities.

#### **3. What is the significance of the title story?**

The title story, "The Woman with a Worm in Her Head," serves as a poignant example of how even seemingly innocuous infections can have profound and life-altering effects. The case highlights the complexities of diagnosing and treating

parasitic infections, while also emphasizing the resilience of the human body and the

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importance of timely medical intervention.

#### **4. How does the book address the global impact of infectious diseases?**

Nagami discusses the global nature of infectious diseases, particularly the challenges faced by developing countries with limited access to healthcare. She explores the importance of international collaboration and the role of organizations like the World Health Organization in combating disease outbreaks.

#### **5. What does the book's conclusion convey?**

Nagami concludes by emphasizing the ongoing threat posed by infectious diseases and the need for continued vigilance. She highlights the importance of prevention, vaccination, and early detection, while also acknowledging the challenges that remain in the fight against these hidden enemies.

### **Tandem Mooring and Offloading Lines: Frequently Asked Questions**

#### **Introduction**

Tandem mooring and offloading lines are essential components of marine operations, enabling the safe and efficient transfer of cargo and personnel between vessels. However, understanding their operation and safety considerations can be complex. This article addresses common questions to provide clarity on these vital systems.

#### **Question 1: What is tandem mooring?**

**Answer:** Tandem mooring is a technique where two vessels are securely connected in line, with the second vessel (the "tandemed" vessel) positioned directly behind the first vessel (the "lead" vessel). This allows the tandemed vessel to follow the lead vessel's maneuvers while being protected from the open sea.

#### **Question 2: When is tandem mooring used?**

**Answer:** Tandem mooring is typically used in situations where:

- The lead vessel has limited maneuverability or is navigating in restricted areas.

- The tandem vessel is carrying hazardous or sensitive cargo that requires additional protection.
- Weather conditions or currents make it difficult for the tandem vessel to moor independently.

### **Question 3: What are offloading lines?**

**Answer:** Offloading lines are ropes or cables used to transfer cargo or fuel between vessels during tandem mooring operations. They are attached securely to bollards or winches on both vessels and are used to guide and control the transfer process.

### **Question 4: How are tandem mooring and offloading lines handled?**

**Answer:** Handling tandem mooring and offloading lines requires careful preparation and coordination. Trained personnel must establish communication between vessels and ensure that the lines are adequately tensioned and secured. The lead vessel provides guidance while the tandem vessel follows instructions.

### **Question 5: What safety considerations are critical for tandem mooring and offloading operations?**

**Answer:** Safety is paramount in these operations. Key considerations include:

- Proper line selection and sizing to handle the weight and tension involved.
- Regular inspection and maintenance of lines and equipment.
- Clear communication and coordination between vessels.
- Adherence to established procedures and protocols.
- Appropriate safety gear and fall protection systems.

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