

FIBER OPTIC COMMUNICATION

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Who is the father of fiber optic communication?

What is the fiber optic communication system? Communication via optical fiber involves the transmission of information, such as digital data or voice, through a network of thin glass or plastic fibers that use light to carry the signal. The process begins with an electronic signal, which is converted into light using a laser or light-emitting diode (LED).

Which laser is used in optical fibre communication?

What is OFC in communication? Optical fibre cables (OFC) are now preferred over old copper telecom cables as they provide high-speed broadband services. Optical fibre loses 3% of the signal over 100 meters of distance, while copper wires lose 94%.

Who is the world leader in optical fiber? CommScope: CommScope is a global leader in infrastructure solutions for communication networks, including fiber optics. The company's offerings for wired and wireless communication contribute to its significance in the evolving market.

Who is the inventor of fiber optic? Narinder Singh Kapany (31 October 1926 – 4 December 2020) was an Indian-American physicist best known for his work on fiber optics. Kapany is a pioneer in the field of fiber optics, known for coining and popularising the term.

When was fiber optics invented? Fiber Optic Cable In 1952, UK based physicist Narinder Singh Kapany invented the first actual fiber optical cable based on John Tyndall's experiments three decades earlier.

Is fiber optic a telecom? Fiber optics is capable of transmitting more data at faster speeds over longer distances than other technologies. As a result, it has become the foundation of modern data transmission and is increasingly used in telecom, internet service provider and enterprise data center networks.

What are the disadvantages of optical fiber? Disadvantages of Optical Fiber Cable They have limited physical arc of cables. If you bend them too much, they will break. The optical fibers are more expensive to install, and they have to be installed by the specialists. They are not as robust as the wires.

Which is better LED or laser in optical fiber communication? Lasers are more powerful and operate at faster speeds than LEDs, and they can also transmit light farther with fewer errors. LEDs, on the other hand, are less expensive, more reliable, and easier to use than lasers.

What technology is used in optical fiber communication? Fiber optics is a technology that transmits data signals over long distances using thin, flexible glass or plastic fibers. It operates by sending pulses of light through the fibers, which reflect off the fiber walls and travel to the other end, where they are decoded into the original data signal.

What LED is used in optical fiber communication? The basic LED types used for fiber optic communication systems are the surface-emitting LED (SLED), the edge-emitting LED (ELED), and the superluminescent diode (SLD).

How do you use OFC?

What is OFC in IT industry? OFC in the IT industry stands for Optical Fiber Cable. These cables are used to transmit data through light signals, offering high-speed and reliable communication networks for various applications such as internet connections, telecommunication systems, and networking infrastructure.

What is OFC in typing? In texting and internet slang, OFC means “of course.” Sometimes, the F stands for a particularly offensive epithet: of f* * *ing course.

How do fiber optics transmit data? Fiber-optic cables transmit data via fast-traveling pulses of light. Another layer of glass, called “cladding,” is wrapped around the central fiber and causes light to repeatedly bounce off the walls of the cable rather than leak out at the edges, enabling the signal to go farther without attenuation.

Who owns fiber optics? Undersea fiber optic cables are owned by private telecom companies, consortiums, and governments. They collaborate or individually invest in these cables for international data and communication services.

What is the principle of fiber optical communication? Optical fibres work on the principle of total internal reflection. When a light ray strikes at the internal surface of an optical fibre cable such that the incidence angle is greater than the critical angle, then the incident light ray reflects in the same medium and this phenomenon repeats.

Who is the father of fiber Internet? Charles Kuen Kao is known as the “father of fiber optic communications” for his discovery in the 1960s of certain physical properties of glass, which laid the groundwork for high-speed data communication in the Information Age.

Who started fiber Internet? 1986: Sprint became the first U.S. telecom company to establish a nationwide, 100% digital fiber-optic network. 1988: The first transatlantic telephone cable to use optical fiber went into operation, connecting the United States, the United Kingdom, and France.

Why is it called fiber optic? Fiber optics, or optical fiber, refers to the technology that transmits information as light pulses along a glass or plastic fiber. A fiber optic cable can contain a varying number of glass fibers, from a few up to a couple hundred. Another glass layer called cladding surrounds the glass fiber core.

Who invented fiber connection? Narinder Singh Kapany, the mastermind behind the communication revolution through fiber optics, was born on October 31, 1926, in Moga, Punjab, British India. His passion for science and optics led him to pursue his Bachelor's in Science from Agra University after completing his early education in

Dehradun.

Who invented optical communication? In 1880 Alexander Graham Bell and his assistant Charles Sumner Tainter created a very early precursor to fiber-optic communications, the Photophone, at Bell's newly established Volta Laboratory in Washington, D.C. Bell considered it his most important invention.

Who is the leader of optical Fibre? STL is the world's leading provider for fiber Optic and Optical fibre cable solutions. Our optic fibre solutions cater to all your requirements serving a wide range of applications.

Who is the father of optica? UNESCO declared 2015 the International Year of Light and its Director-General Irina Bokova dubbed Ibn al-Haytham 'the father of optics'. Amongst others, this was to celebrate Ibn Al-Haytham's achievements in optics, mathematics and astronomy.

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How to access MyLab on Pearson?

What is the most difficult IFRS standard? IFRS 9 is probably the most complicated accounting standard ever issued, written to address the accounting weaknesses claimed to have contributed to the global financial crisis and intended to be fit for purpose for the most complex banking and financial services companies.

Has IAS been replaced with IFRS? International Accounting Standards (IAS) are a set of rules for financial statements that were replaced in 2001 by International Financial Reporting Standards (IFRS). They've since been adopted by most major financial markets worldwide.

What are the problems with IFRS? Lack of Details. IFRS often requires significant judgment calls and estimates, particularly in areas where specific guidelines are not provided. This subjectivity can lead to variations in how different companies interpret and apply the standards.

Are you familiar with IFRS? IFRS is an acronym for International Financial Reporting Standards and covers full set of principles and rules on accounting treatment of various items or situations. This full set comprises the following components: Framework for the Preparation and Presentation of Financial Statements.

Why is IFRS not used in the US? Some reasons for the U.S. not embracing the standards convergence are: U.S. firms are already familiar with the existing standards; the inability or low ability to culturally relate to other countries' accounting systems; and a lack of good understanding of the international principles.

Which is stricter GAAP or IFRS? GAAP differences. Firstly, there's a clear difference in terms of methodology. IFRS is principles-based, whereas GAAP is rules-based. Essentially, this means that GAAP is far stricter than IFRS, offering specific rules and procedures that leave little room for interpretation.

What is the key difference between IAS and IFRS? The key difference between IAS and IFRS is that IAS is the earlier version of the accounting standards, while IFRS is a more up-to-date and widely used version worldwide. IFRS provides more detailed requirements for financial reporting and covers a broader range of

accounting issues than IAS.

What is the difference between IAS 1 and IFRS 18? In brief. IFRS 18 replaces IAS 1 and responds to investors' demand for better information about companies' financial performance. New requirements include: new categories and subtotals in the statement of profit or loss, disclosure of MPMs and enhanced requirements for grouping information.

What is the difference between IAS and IFRS leases? IFRS 16 was introduced to address the limitations and shortcomings of the previous lease accounting standard, IAS 17. The primary reasons for the need of IFRS 16 were: Off-Balance Sheet Financing Concerns: Under IAS 17, operating leases were kept off the balance sheet.

How do you overcome IFRS challenges?

What happens if you don't comply with IFRS? Non-compliance Can Affect Your Finances If you aren't compliant with the lease accounting standards, your ability to source credit lines and find investors will be slim to none. Companies may not always love the new accounting standards, but investors certainly do.

WHO issues IFRS standards? The International Accounting Standards Board (IASB) is an independent, private-sector body that develops and approves International Financial Reporting Standards (IFRSs). The IASB operates under the oversight of the IFRS Foundation.

Can US companies use IFRS? It has not yet been adopted as an official system in the United States. However, any company that does a large amount of international business may need to use IFRS reporting on its financial disclosures in addition to GAAP. IFRS Foundation.

What are the four principles of IFRS? IFRS insists on four key principles for preparing financial statements: clarity, relevance, reliability, and comparability. Clarity means making financial statements easy to read and understand.

Does the US use GAAP or IFRS? IFRS (International Financial Reporting Standards) is not used in the US because the US government has not adopted it as the official accounting standard. Instead, the US uses its own set of generally

accepted accounting principles (GAAP).

What are the disadvantages of IFRS? Disadvantages: Implementation Costs: Due to the need to modify existing accounting procedures, systems, and policies, implementing IFRS can be expensive for businesses. Lack of Flexibility: The lack of adaptability in IFRS may make it difficult to meet the specific requirements of some businesses and industries.

Which country has not accepted IFRS?

Does US CPA cover IFRS? Are the accounting standards different for US CPA and Canada CPA? Yes, the US follows Generally Accepted Accounting Principles (GAAP), while Canada follows International Financial Reporting Standards (IFRS).

What is the most difficult IFRS? IFRS 9 Financial Instruments is one of the most challenging standards because it's sooo complex and sometimes complicated.

What is the difference between IAS and IFRS? Summary. IAS represents International Accounting Standards, while IFRS alludes to International Financial Reporting Standards. The IAS Standards come between 1973 and 2001, while IFRS guidelines come from 2001 onwards. IAS Standards fall under the IASC, while the IFRS come via the IASB, which succeeded the IASC.

Is Lifo allowed under IFRS? IFRS prohibits LIFO due to potential distortions it may have on a company's profitability and financial statements. For example, LIFO can understate a company's earnings for the purposes of keeping taxable income low.

Why change from IAS to IFRS? Transparency: The introduction of IFRS 16 was aimed at increasing the transparency and accuracy of financial reporting. By requiring companies to recognize all leases on their balance sheets, the new standard ensures that financial statements provide a more accurate picture of a company's financial position.

Which IFRS replaced IAS? IFRS 18 replaces IAS 1 Presentation of Financial Statements. It carries forward many requirements from IAS 1 unchanged. IFRS 18 is the culmination of the IASB's Primary Financial Statements project.

What is the IAS used for? What are the International Accounting Standards (IAS)? The international accounting standards are a set of practices established by the International Accounting Standards Board (IASB). These practices are designed to make it simpler for businesses around the world to compare financial reporting and data.

Why IAS 18 was replaced by IFRS 15? - Supersession by IFRS 15: IFRS 15 replaced IAS 18 to establish a more comprehensive and robust framework for recognizing revenue in financial statements, applicable across various sectors and transaction types.

Why was IAS 17 replaced by IFRS 16? Why the new lease standard? Short answer: To eliminate off-balance sheet financing. Under IAS 17, lessees needed to classify the lease as either finance or operating.

What is the difference between IAS 39 and IFRS 13? The change in definition of fair value for financial liabilities IFRS 13 introduces a new definition of fair value which, for financial instruments, replaces the previous definition included in IAS 39 Financial Instruments: Recognition and Measurement (and IFRS 9 Financial Instruments).

Why is IFRS 17 better than IFRS 4? IFRS 17, issued by the International Accounting Standards Board (IASB) in 2017, represents a paradigm shift in the accounting for insurance contracts. Unlike IFRS 4, IFRS 17 is a comprehensive standard that aims to provide a consistent and transparent approach to insurance contract accounting.

Why is IFRS 17 complex? Complexity: IFRS 17 is a complex standard that requires a thorough understanding of insurance contracts and the underlying financial and actuarial concepts. Companies have, over the last few years, already invested time and resources to understand and effectively implement the requirements.

Is IFRS 15 hard? Companies may find it hard to implement IFRS 15, and many have had trouble correctly implementing the standard. Typical difficulties include: - Calculating the estimated variable consideration and determining its constraint status and many more.

Is IFRS 9 hard? IFRS 9 Financial Instruments is one of the most challenging standards because it's sooo complex and sometimes complicated.

What is the major difference between IAS 17 and IFRS 16? The main difference relates to the treatment of residual value guarantees provided by a lessee to a lessor. This is because IFRS 16 requires that the company recognise only amounts expected to be payable under residual value guarantees, rather than the maximum amount guaranteed as required by IAS 17.

What is IFRS 17 for dummies? IFRS 17 requires the Fund to disclose information in the Notes to the Annual Financial Statements at a level of detail that, together with the primary financial statements, give members a basis to assess the effects that insurance contracts have on the Fund's position, performance and cash flows.

What accounting practices are not allowed by IFRS 4? However, IFRS 4: prohibits provisions for possible claims under contracts that are not in existence at the end of the reporting period (such as catastrophe and equalisation provisions); requires a test for the adequacy of recognised insurance liabilities and an impairment test for reinsurance assets; and.

What is the issue of IFRS 17? IFRS 17 requires a company to measure insurance contracts using updated estimates and assumptions that reflect the timing of cash flows and any uncertainty relating to insurance contracts. This requirement will provide transparent reporting about a company's financial position and risk.

What is the IFRS 17 replacing? IFRS 17 replaces IFRS 4 Insurance Contracts. When introduced in 2004, IFRS 4—an interim Standard—was meant to limit changes to existing insurance accounting practices. Hence, IFRS 4 has allowed insurers to use different accounting policies to measure similar insurance contracts they write in different countries.

Which countries will adopt IFRS 17? IFRS 17 adoption progresses around the world China, the second largest insurance market in the world, has decided to adopt IFRS 17 over a three year transition period. Saudi Arabia has adopted the IFRS 17 amendments issued in June 2020 and India is consulting on the adoption of them.

Is IFRS tested on the CPA exam? Changes made to the FAR exam only consist of content being removed, and namely, the removal of International Financial Reporting Standards (IFRS).

What is the difference between IAS 18 and IFRS 15? - Scope of IFRS 15: Unlike IAS 18, which had separate guidance for different types of transactions (goods, services, interest, royalties, and dividends), IFRS 15 provides a single, comprehensive revenue recognition model for all contracts with customers, except for leases, financial instruments, and insurance contracts ...

What is IFRS 15 for dummies? International Financial Reporting Standard (IFRS) 15: Revenue from Contracts with Customers was introduced by the International Accounting Standards Board to provide one comprehensive revenue recognition model for all contracts with customers to improve comparability within industries, across industries, and across ...

Is IAS 39 still used? IAS 39 was reissued in December 2003, applies to annual periods beginning on or after 1 January 2005, and will be largely replaced by IFRS 9 Financial Instruments for annual periods beginning on or after 1 January 2018.

Is IAS 27 still applicable? Effective date of application. IAS 27 was reissued in May 2011 and applies to annual periods beginning on or after 1 January 2014 (EU effective date) and annual periods beginning on or after 1 January 2013 (IASB effective date), superseding IAS 27 'Consolidated and Separate Financial Statements' from that date.

What is the difference between IAS 39 and IFRS 9? Under IAS 39, embedded derivatives not closely related to a non-trading host contract must be measured at FVPL, but the host contract often still can be measured at Amortized Cost. Under IFRS 9, the entire contract will have to be measured at FVPL in all but a few cases.

Ship or Sheep? Face2Face Intermediate Pronunciation Course with Book and Audio CD Pack

Q: What's included in the "Ship or Sheep" book and audio CD pack?

A: The pack contains a physical book with written materials for learning English pronunciation and an accompanying audio CD with audio recordings of native English speakers demonstrating correct pronunciation.

Q: What is the target audience for this course?

A: The course is designed for intermediate learners of English who want to improve their pronunciation skills. It's suitable for both self-study and use in a classroom setting.

Q: What pronunciation aspects does the course cover?

A: The course covers a wide range of English pronunciation topics, including vowel and consonant sounds, stress and intonation, connected speech, and common pronunciation mistakes.

Q: How does the course approach pronunciation teaching?

A: The course uses a combination of theory and practice. It provides clear explanations of pronunciation concepts and rules, followed by exercises and activities that allow learners to practice and improve their pronunciation skills.

Q: What are the benefits of using this course?

A: By using the "Ship or Sheep" pronunciation course, learners can:

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- Avoid common pronunciation pitfalls that can hinder communication

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