

Automation in high speed rail road transportation

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What are the technologies for high-speed rail? Technological Advances in High-Speed Rail The pursuit of higher speeds and more efficient rail travel has led to the development of several high-speed rail networks: Maglev (Magnetic Levitation): utilize powerful magnetic forces to lift and propel the train above the track, virtually eliminating friction.

How is automation used in transportation? Automation has been applied in various ways in the transportation industries. Applications include airline reservation systems, automatic pilots in aircraft and locomotives, and urban mass-transit systems. The airlines use computerized reservation systems to continuously monitor the status of all flights.

What is grade of automation in trains? The degree of automation is indicated by the Grade of Automation (GoA), up to GoA4 in which the train is automatically controlled without any staff on board. On most systems for lower grades of automation up to GoA2, there is a driver present to mitigate risks associated with failures or emergencies.

What are the technological challenges high-speed rail? These problems include: wheel tread concave wear causing the lateral oscillation of the train in operation, wheel roundness higher-order polygonal wear leading to fierce vertical vibration of wheel/rail and abnormal vibration noise of the coach interior of the train thus causing loosening and cracking of the train ...

Which country has the best high-speed rail technology in the world? The high-speed rail (HSR) network in the People's Republic of China (PRC) is the world's

longest and most extensively used – with a total length of 45,000 kilometres (28,000 mi) by the end of 2023. The HSR network encompasses newly built rail lines with a design speed of 200–380 km/h (120–240 mph).

Which technology is used in autonomous train in rail freight? GoA2: Uses ATP and automatic train operation (ATO), a safety device used in the operation of automated trains; starting and stopping is automatic; driver closes doors; driver operates in event of disruption.

How can AI be used in transport? Along with predictive analytics, real-time video monitoring, and other technologies, AI in transportation can find gaps in safety and prevent more incidents on the road, within a warehouse, and in other locations. For example, in autonomous vehicles, AI is used to detect and react to hazards faster than a driver.

What is automation in travel industry? Streamlining Operations In The Travel Industry Designed to cater to the needs of both complex travel agencies and tour operators, automated travel systems streamline the booking process for various travel products, including flights, hotels, tours, packages, and cruises.

What are the benefits of automated transportation? Fewer traffic jams save fuel and reduce greenhouse gases from needless idling. Automated driving systems may reduce unnecessary braking and acceleration that waste fuel. Vehicles with fully automated driving systems may be able to travel more closely together, reducing air drag and thereby reducing fuel use.

What is the fastest automated train? The maglev train service began operating in 2004 with trains reaching a top speed of 431 km/h (268 mph), and remains the fastest high-speed service in the world.

What is ATS vs ATO vs ATP? Automatic Train Control (ATC) is a railway control, supervision and management system composed of three subsystems: Automatic Train Protection (ATP), Automatic Train Operation (ATO) and Automatic Train Supervision (ATS).

Are trains automatic or manual? Trains can be driven both manually and automatically, depending on the type of train and the technology used to operate it.

In traditional train systems, the train is typically driven by a human driver, who operates the train using various controls and instruments.

What is high-speed rail technology? Maglev trains use electromagnetic force to levitate several inches over the track or guideway. By eliminating a key source of friction—that of the wheels on the rails—such trains can reach higher speeds than conventional trains, have longer lasting parts, and are very quiet and smooth to ride.

What are the disadvantages of high-speed rail? High-speed rail is generally regarded as the pinnacle of attractive and green transportation. But all too often, it makes train travel more expensive and less flexible. In the end, costly high-speed lines may just push more people into cars.

How is high-speed rail sustainable? First invented in 1964 in Japan, HSRs have proven to be environmentally sustainable for many reasons. Firstly, they substitute for other forms of transportation, most notably traditional railways, cars, and other vehicles with high levels of carbon emissions [2].

What technology is used in the bullet train? Electrical systems. Shinkansen uses a 25 kV AC overhead power supply (20 kV AC on Mini-shinkansen lines), to overcome the limitations of the 1,500 V direct current used on the existing electrified narrow-gauge system. Power is distributed along the train's axles to reduce the heavy axle loads under single power cars.

What are the technologies used in Hyperloop? The system would consist of a network of steel tubes, with pods traveling through a “near-vacuum” environment at speeds of up to 1,220 km (760 miles) per hour using magnetic levitation and propulsion. Hyperloop tubes would connect hubs located in cities worldwide.

What technology is used in trains? Positive Train Control: PTC is a set of technologies that prevent the most serious human-error accidents like train-to-train collisions and over-speed derailments. PTC is fully implemented and operates network-wide on 100% of Class I PTC route miles.

What is the fastest train technology in the world? The maglev train service began operating in 2004 with trains reaching a top speed of 431 km/h (268 mph), and remains the fastest high-speed service in the world.

What was the goal of the freedom riders in The Triumphs of a Crusade? The two-bus trip would test the Supreme Court decisions banning segregated seating on interstate bus routes and segregated facilities in bus terminals. Peck and other freedom riders hoped to provoke a violent reaction that would convince the Kennedy administration to enforce the law.

Which crusade failed in its goal of recapturing the crusader state of edessa from the turks? The Second Crusade (1147-1149 CE) was a military campaign organised by the Pope and European nobles to recapture the city of Edessa in Mesopotamia which had fallen in 1144 CE to the Muslim Seljuk Turks.

What role did violence shown on television play in this march? Final answer: The violence shown on TV during the Selma marches encouraged participation in the civil rights movement by exposing the harsh opposition faced by African Americans to the broader public, thereby increasing support for their cause and leading to the passage of the Voting Rights Act of 1965.

What group of civil rights workers who took bus trips through southern states in 1961 to protest illegal bus segregation? Freedom Riders were civil rights activists who rode interstate buses into the segregated Southern United States in 1961 and subsequent years to challenge the non-enforcement of the United States Supreme Court decisions *Morgan v.*

What was the main point of the Freedom Riders? Their goal was to challenge state laws that enforced segregation in transportation and call upon the federal government to enforce the recent Supreme Court *Boynton v. Virginia* ruling prohibiting the segregation of interstate travel.

What was the end result of the Freedom Rides? Although the campaign succeeded in securing an Interstate Commerce Commission (ICC) ban on segregation in all facilities under their jurisdiction, the Freedom Rides fueled existing tensions between student activists and Martin Luther King, Jr., who publicly supported the riders, but did not participate in the campaign.

Which Crusade aimed to recapture Edessa? The Second Crusade (1147–1150) was the second major crusade launched from Europe. The Second Crusade was

started in response to the fall of the County of Edessa in 1144 to the forces of Zengi. The county had been founded during the First Crusade (1096–1099) by King Baldwin I of Jerusalem in 1098.

What Crusade helped to lead to the fall of Constantinople and why? Sack of Constantinople, (April 1204). The diversion of the Fourth Crusade from the Holy Land to attack, capture, and pillage the Byzantine city of Constantinople divided and dissipated the efforts of the Christians to maintain the war against the Muslims.

What Crusade ended in failure? The Second Crusade ended in failure due to strategic mistakes, internal conflicts, and strong Muslim resistance. The Second Crusade, which took place from 1147 to 1149, was a major military campaign initiated by the Christian world with the aim of recapturing the Holy Land from Muslim control.

What are two ways the government tried to help the Freedom Riders? Name two ways the government tried to help the freedom riders. President Kennedy sent 400 U.S. marshals to protect the freedom riders. The Interstate Commerce Commission banned segregation in all travel facilities including waiting rooms, restrooms, and lunch counters.

What was the goal of the Freedom Riders Quizlet? They wanted to end segregation on buses and public accommodations. The freedom riders went through training to prepare them for the violence they expected to encounter. Security and police were assigned to each bus terminal to prevent violence from breaking out.

What did the march encourage Johnson to do? On March 15, 1965, President Johnson, encouraged by the events in Selma, demanded that Congress pass voting rights legislation. The joint session of Congress was nationally televised live.

How do you think African Americans were affected by the bus boycott? The boycott garnered a great deal of publicity in the national press, and King became well known throughout the country. The success in Montgomery inspired other African American communities in the South to protest racial discrimination and galvanized the direct nonviolent resistance phase of the civil rights movement.

Why did blacks have to sit in the back of the bus? Under the system of segregation used on Montgomery buses, the ten front seats were reserved for white people at all times. The ten back seats were supposed to be reserved for black people at all times. The middle section of the bus consisted of sixteen unreserved seats for white and black people on a segregated basis.

What happened to Rosa Parks after the bus? In the wake of the Montgomery Bus Boycott, Parks lost her tailoring job and received death threats. She and her family moved to Detroit, Michigan in 1957. However, she remained an active member of the NAACP and worked for Congressman John Conyers (1965-1988) helping the homeless find housing.

How did the public react to the Freedom Riders? Freedom Riders Face Bloodshed in Alabama On May 14, 1961, the Greyhound bus was the first to arrive in Anniston, Alabama. There, an angry mob of about 200 white people surrounded the bus, causing the driver to continue past the bus station.

How were the Freedom Riders confronted with when protesting? The Freedom Riders encountered violence in South Carolina, but in Alabama the reaction was much more severe. On May 14, upon stopping outside Anniston to change a slashed tire, one bus was firebombed and the Freedom Riders were beaten.

How did the freedom ride impact the civil rights movement? Virginia (1960), which ruled that segregation of public buses was unconstitutional, foot soldiers of the Civil Rights Movement began the Freedom Rides. The Freedom Riders rode interstate buses across the South and drew national attention to their cause because of the violence that often erupted against them.

Were the Freedom Riders peaceful? The Freedom Riders were able to remain nonviolent when their lives were in danger, despite the burning of the Greyhound Bus near Anniston, AL on May 14 and the brutal riots in Birmingham, AL on May 14 and Montgomery, AL on May 20.

How many Freedom Riders were jailed? All told, more than 300 Freedom Riders were jailed in Jackson alone. After months of delay, the ICC officially ruled segregation in interstate travel illegal on November 1, 1961. In the days that

followed, small coordinated teams of Freedom Riders fanned out across the South to test compliance with the ICC's ruling.

Who led the Freedom Riders? Co-founder and National Director of the Congress of Racial Equality (CORE), James "Jim" Farmer was the architect of the original CORE Freedom Ride of 1961. He saw the significance of desegregating interstate travel and the potential of repeating CORE's 1947 Journey of Reconciliation as a movement tactic.

Who won the Crusades? A: As we know, the crusader states were lost. The final bastions of the crusader states were lost in 1291 (having been founded originally in 1099) to Muslim forces. In that sense, obviously the Muslims won the crusades and the Christians were defeated.

How did Edessa fall? Queen Melisende of Jerusalem mustered a relief force that marched for Edessa, but Prince Raymond of Antioch refused to help. On 24 December, a section of the walls collapsed into a mine and Zengi's troops poured into the city, capturing everything except the citadel.

Who won the 2nd Crusade? The Second Crusade was led by two European kings—Louis VII of France and Conrad III of Germany. The German and French armies took separate routes to Anatolia, fighting skirmishes along the way, and both were defeated separately by the Seljuq Turks.

What did the Freedom Riders aim for? The Freedom Riders aimed to draw attention to inadequacies in health and housing and to support Aboriginal people in challenging the status quo. The Freedom Riders adopted Martin Luther King's approach of non-violent resistance.

What was the goal of the Freedom Riders Quizlet? They wanted to end segregation on buses and public accommodations. The freedom riders went through training to prepare them for the violence they expected to encounter. Security and police were assigned to each bus terminal to prevent violence from breaking out.

How were the Freedom Riders triumphant? Later that year, Attorney General Robert F. Kennedy appealed to the Interstate Commerce Commission and filed a petition to end segregation in interstate travel. It was declared unconstitutional on

November 1, 1961. The Freedom Riders were victorious.

What were the motivation goals and methods of the Freedom Riders? The Freedom Ride was a form of non-violent direct action taken by a politically disparate coalition of Aboriginal and non-Indigenous University students on a bus. Its purpose was to witness, publicise and challenge segregation and racial discrimination against Aboriginal people in regional towns in New South Wales.

What did the Freedom Riders do to act against racial discrimination? The US Freedom Rides had taken place in 1961 with the aim of de-segregating transport such as buses. SAFA adopted the idea but with a much broader meaning. Black and white students would travel together by bus to draw attention to all kinds of racial discrimination.

How long did the Freedom Ride last? The bus passengers assaulted that day were Freedom Riders, among the first of more than 400 volunteers who traveled throughout the South on regularly scheduled buses for seven months in 1961 to test a 1960 Supreme Court decision that declared segregated facilities for interstate passengers illegal.

What were the tactics of the Freedom Riders? This tactic—nonviolent direct action—utilized sit-ins, strikes, and boycotts to confront injustice. The action was "direct" in the way it confronted and disrupted discriminatory practices such as "whites only" lunch counters and bus terminals and discriminatory hiring practices.

Which of the following was a goal of the Freedom Riders? Final answer: The primary goal of the Freedom Riders during the civil rights movement was to provoke the federal government to enforce the law by drawing attention to states that ignored federal law on public bus desegregation.

What were the goals of the Freedom Riders Freedom Summer? During the summer of 1964, hundreds of college students flooded Mississippi. The students came from different backgrounds, colleges, and Civil Rights organizations. Despite these differences, they had one goal, increase voter registration among African Americans in Mississippi.

What was the goal of the Freedom Ride brainly? Explanation: The goal of the Freedom Rides was to ensure that desegregation on interstate bus transportation had occurred.

What was the purpose of the Freedom Riders? Freedom Rides, in U.S. history, a series of political protests against segregation by Blacks and whites who rode buses together through the American South in 1961. In 1946 the U.S. Supreme Court banned segregation in interstate bus travel.

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How are the Freedom Riders remembered today? The three national monuments are the Freedom Riders National Monument (AL), the Birmingham Civil Rights National Monument (AL), and the Reconstruction Era National Historical Park (SC).

What happened as a result of the core Freedom Rides through the South? On September 22, 1961, after six months of protests, arrests, and press conferences by the Freedom Riders, the Interstate Commerce Commission (ICC) finally outlawed discriminatory seating practices on interstate bus transit and ordered the removal of "whites only" signs from interstate bus terminals by November 1.

Sheep Kidney Dissection Lab Report Answers

Question 1: What is the overall structure and shape of the sheep kidney?

Answer: The sheep kidney is a bean-shaped organ with a smooth, reddish-brown surface. It is divided into two distinct regions: the renal cortex (outer layer) and the renal medulla (inner layer).

Question 2: Identify and describe the major anatomical structures of the sheep kidney.

Answer: The major anatomical structures of the sheep kidney include:

- **Renal pelvis:** A funnel-shaped cavity that collects urine from the nephrons
- **Ureter:** A tube that carries urine from the renal pelvis to the bladder
- **Nephrons:** Microscopic functional units of the kidney that filter blood and produce urine
- **Cortical lobules:** Pyramids of tissue located in the renal cortex
- **Renal pyramids:** Pyramids of tissue located in the renal medulla

Question 3: Explain the function of the nephron and describe its key components.

Answer: The nephron is the basic functional unit of the kidney. It filters blood, reabsorbs essential nutrients, and produces urine. Key components of the nephron include:

- **Glomerulus:** A network of capillaries where blood is filtered
- **Bowman's capsule:** A cup-shaped structure that surrounds the glomerulus and collects filtrate
- **Proximal convoluted tubule:** A long, coiled tube where reabsorption of nutrients occurs
- **Loop of Henle:** A U-shaped loop that concentrates urine
- **Distal convoluted tubule:** A short, coiled tube where further reabsorption and secretion occur

Question 4: Describe the pathway of blood flow through the sheep kidney.

Answer: Blood enters the sheep kidney through the renal artery and flows into the glomerulus. Filtrate is then filtered out of the glomerulus into Bowman's capsule. The filtrate passes through the proximal convoluted tubule, loop of Henle, and distal convoluted tubule. Reabsorbed substances are returned to the bloodstream, while waste products are concentrated into urine. The urine flows into the renal pelvis and is then carried to the bladder via the ureter.

Question 5: Discuss the significance of the sheep kidney dissection lab in understanding renal anatomy and physiology.

Answer: The sheep kidney dissection lab provides a hands-on opportunity to study the anatomy and physiology of the sheep kidney. By identifying and examining the major structures of the kidney, students gain a deeper understanding of how the organ filters blood, reabsorbs nutrients, and produces urine. This knowledge is essential for comprehending renal function and diagnosing kidney-related diseases.

What is the book Earthquake in the Early Morning about? Lesson Summary Jack and Annie are a brother and sister who have magical adventures traveling in a magic tree house. Some of their missions are to help librarian Morgan le Fay save King Arthur and Camelot. In story #24, the children travel to San Francisco on the day of a big earthquake.

What happened in the Magic Tree House? Plot: Jack and Annie discover the tree house and, using the magical books there, unwittingly travel back to the late Cretaceous period, where they meet a Pteranodon that saves them from a Tyrannosaurus rex. Jack finds a gold medallion with the letter "M" on it.

What is the theme of earthquake in the early morning? Earthquake in the Early Morning explores a period of San Francisco's history. Help students gain an understanding of the history of their own city or town. In their travels, Jack and Annie meet up with Betty and Fred, a reporter and photographer covering the earthquake.

What is the message of Magic Tree House? Osborne says the biggest lesson she hopes readers take from her series is that we need to try new things to figure out who we are as unique individuals. "It's not that easy for us," Osborne says. "We have to figure that out through much of our lives."

How many Magic Tree House books are there? The Magic Tree House book saga is an ongoing and prolific collection encompassing approximately 66 books of fiction and 44 non-fiction, for a total of 110 books—with many more set to release. These books are divided into three large series: Magic Tree House, Merlin Missions, and Fact Tracker.

What is the story behind earthquake? The tectonic plates are always slowly moving, but they get stuck at their edges due to friction. When the stress on the edge overcomes the friction, there is an earthquake that releases energy in waves that travel through the earth's crust and cause the shaking that we feel.

What is the famous line from The Magic Tree House? "I WISH WE COULD GO THERE!" When they are in the tree house, Jack and Annie only have to say those simple words and the tree house starts to spin, faster and faster...

What is the summary of The Magic Tree House? The series began in 1992 and continues to this day. In the first book, two siblings discover a magic tree house, and each novel centers on a similar plot: they visit different times and places, narrowly escape danger, and return safely to their magical tree house and their own time.

What is the moral of Magic Tree House? Look for heroes, far and near. Give your gifts to the world. Have compassion for all creatures. These are just a few of the lessons that Magic Tree House fans will learn on their magical journey through this book.

What lesson did you learn from the earthquake? We need to stay calm and analyze ways to injure ourselves as less as possible. Have you already experienced an earthquake at least once in your life? If the answer is yes you know that the first thing that someone experienced with this type of event will say to you is: "Stay calm and don't move."

What is the main point of the earthquake? The location below the earth's surface where the earthquake starts is called the hypocenter, and the location directly above it on the surface of the earth is called the epicenter. Sometimes an earthquake has foreshocks. These are smaller earthquakes that happen in the same place as the larger earthquake that follows.

What is the earthquake metaphor? In line with the metaphors created by the participants, it is seen that the earthquake is perceived as a doomsday-like effect, helplessness and disaster; the future after the earthquake is perceived as uncertainty, hopelessness and pessimism; and the place of residence is perceived as an unsafe, fearful grave.

What inspired Mary Pope Osborne to write Magic Tree House? The first of the Magic Tree House books, *Dinosaurs Before Dark*, was published in 1992. She was initially inspired to write the books while working in a teen homeless shelter and realizing that for the teens writing themselves into stories taking place in the Himalayas or Serengeti had a major effect on them.

What are the 4 m things in Magic Tree House? During one of their visits, they met an enchantress named Morgan Le Fay, who asked the children to free her from a magic spell by finding four items that begin with the letter M. So far they have found a moonstone, a mango, and a mammoth bone. A mouse named Peanut has helped them find these items.

Did Magic Tree House end? Osborne has no plans of stopping writing her "Tree House" novels. "If I had to stop my life with those kids, I would probably go into mourning — or at least secretly keep them," she said. Jack and Annie are very real presences in her life. "Memories of Jack and Annie's adventures are mingle with my own.

Is there a Magic Tree House movie? Magic Tree House made its debut at the 24th Tokyo International Film Festival on 23 October 2011. It was featured as one of the festival's special screenings. The film was released in Japanese cinemas on 7 January 2012, and was also featured at a release ceremony at Shinjuku Piccadilly that day.

What age is appropriate for Magic Tree House books? Best for young readers beginning their journey into the world of chapter books, the original Magic Tree House books (ages 6-8) detail Jack and Annie's adventures around the world and across time, from the Ice Age to Ancient Greece.

How old are Jack and Annie? Eight-year-old Jack and his younger sister Annie find a magic treehouse, which whisks them back to an ancient time zone where they see live dinosaurs.

Was the 9.0 earthquake real? The last earthquake that occurred in this fault was on Jan. 26, 1700, with an estimated 9.0 magnitude. This earthquake caused the coastline to drop several feet and a tsunami to form and crash into the land.

How did earthquake end? Earthquakes stop when there isn't enough energy to keep them going. The energy released by the sliding fault needs to be enough to overcome the friction holding rocks in place. Once the earthquake comes up against too much friction, it will stop.

How many died in the biggest earthquake? Note that 830,000 is a minimum figure (recovered bodies). Shaanxi is the preferred spelling these days. 2) No problem except that the estimate of 655,000 is pretty well discredited now. The figure 242,700 also appears in sources, and may be more accurate.

What is the poem early in the morning about? Analysis: "Early in the Morning" In his poem "Early in the Morning," Li-Young Lee explores the relationship between privacy and sensuality through the use of imaginative seeing.

What is the theme of the story the earthquake? In the short story "Earthquake" by Jack Hodgins the theme is that nature is stronger than man. This has been reminded to the characters in the story violently, through the earthquake of '46. The narrator notes that "the scariest thing about quakes is that they change the way a fellow looks at the world".

What is the book Early Morning Riser about? Jane falls in love with Duncan easily. He is charming, good-natured, and handsome but unfortunately, he has also slept with nearly every woman in Boyne City, Michigan. Jane sees Duncan's old girlfriends everywhere—at restaurants, at the grocery store, even three towns away.

What is the theme of the book Miracle Morning? A central theme of The Miracle Morning is that your level of personal responsibility for your life is tied directly to the level of power you have to create or change anything in your life. "It is important to understand that responsibility is not the same as blame."

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