

Integration Testing From The Trenches

Riemann integral

be evaluated by the fundamental theorem of calculus or approximated by numerical integration, or simulated using Monte Carlo integration. Imagine you have

In the branch of mathematics known as real analysis, the Riemann integral, created by Bernhard Riemann, was the first rigorous definition of the integral of a function on an interval. It was presented to the faculty at the University of Göttingen in 1854, but not published in a journal until 1868. For many functions and practical applications, the Riemann integral can be evaluated by the fundamental theorem of calculus or approximated by numerical integration, or simulated using Monte Carlo integration.

Trench drain

labor-intensive: the outlet pipe position in the floor, the levelling of the trench grate in the floor, and integration of the waterproofing. If the outlet is

A trench drain (also known as a channel drain, line drain, slot drain, linear drain, or strip drain) is a specific type of floor drain featuring a trough- or channel-shaped body. It is designed for the rapid evacuation of surface water or for the containment of utility lines or chemical spills. Employing a solid cover or grating that is flush with the surrounding surface, this drain is commonly made of concrete in-situ and with the option of using polymer- or metal-based liners or a channel former to aid in channel crafting and slope formation. The drain is characterized by its long length and narrow width, the cross-section of the drain is a function of the maximum flow volume anticipated from the surrounding surface. Channels can range from 1 inch (2.5 cm) to 2 feet (61 cm) in width, while...

Lovas, Croatia

2017. Three test trenches were opened at Orlinac, just south of Staro groblje ("Old Cemetery"), which was excavated in 2011. All three trenches produced

Lovas (Hungarian: Hosszúlovász, Serbian Cyrillic: Ловас) is a village and seat of municipality in the Vukovar-Syrmia County of eastern Croatia, located on the slopes of Fruška Gora, a few kilometers south of the main road connecting Vukovar with Ilok. Lovas has a population of 1,214 (2011), and its municipality also includes the smaller village of Opatovac (pop. 345 in 2011) which is located to the north, at the Danube. Lovas is underdeveloped municipality which is statistically classified as the First Category Area of Special State Concern by the Government of Croatia.

Launch pad

this site which saw the development of the V-2 rocket. Test Stand VII was the principle testing facility at the Peenemünde Airfield and was capable of

A launch pad is an above-ground facility from which a rocket-powered missile or space vehicle is vertically launched. The term launch pad can be used to describe just the central launch platform (mobile launcher platform), or the entire complex (launch complex). The entire complex will include a launch mount or launch platform to physically support the vehicle, a service structure with umbilicals, and the infrastructure required to provide propellants, cryogenic fluids, electrical power, communications, telemetry, rocket assembly, payload processing, storage facilities for propellants and gases, equipment, access roads, and drainage.

Most launch pads include fixed service structures to provide one or more access platforms to assemble, inspect, and maintain the vehicle and to allow access to...

Baikonur Cosmodrome Site 31

to support payload integration. These updates enabled the resumption of launches from Site 31 in 2009, with Progress M-66 marking the first cargo mission

Baikonur Site 31, also designated as Site 31/6, is a launch complex at the Baikonur Cosmodrome in Kazakhstan. It serves as a key launch site, supporting Soyuz-2 launches for both crewed and uncrewed missions. The site was first utilized on 14 January 1961 for a test flight of the R-7A, an intercontinental ballistic missile on which the Soyuz rocket family was based. Since 2020, following Roscosmos' transition from the Soyuz-FG to the Soyuz-2 rocket for crewed missions, Site 31 has become the primary launch site for Soyuz flights to the International Space Station (ISS). This shift occurred after Site 1/5, also known as Gagarin's Start, failed to

secure funding for upgrades to accommodate the slightly larger Soyuz-2 rocket. Before that, it only saw a handful of crewed flights when Site 1/5 was...

Challenger Deep

shallower ocean trenches (> 7,000 m) and on the abyssal plain, the lifeforms discovered in the Challenger Deep possibly represent taxa distinct from those in

The Challenger Deep is the deepest known point of the seabed of Earth, located in the western Pacific Ocean at the southern end of the Mariana Trench, in the ocean territory of the Federated States of Micronesia.

The GEBCO Gazetteer of Undersea Feature Names indicates that the feature is situated at 11°22.4'N 142°35.5'E and has an approximated maximum depth of 10,903 to 11,009 m (35,771 to 36,119 ft) below sea level. A 2011 study placed the depth at 10,920 ± 10 m (35,827 ± 33 ft) with a 2021 study revising the value to 10,935 ± 6 m (35,876 ± 20 ft) at a 95% confidence level.

The depression is named after the British Royal Navy survey ships HMS Challenger, whose expedition of 1872–1876 first located it, and HMS Challenger II, whose expedition of 1950–1952 established its record-setting depth...

Project Morpheus

partnerships with Kennedy Space Center (KSC) for flight-testing; Stennis Space Center (SSC) for engine testing; Marshall Space Flight Center (MSFC) for engine

Project Morpheus was a NASA project that began in 2010 to develop a vertical takeoff and vertical landing (VTVL) test vehicle called the Morpheus Lander. It is intended to demonstrate a new nontoxic spacecraft propellant system (methane and oxygen) and an autonomous landing and hazard detection technology. The prototype planetary lander is capable of autonomous flight, including vertical takeoff and landings. The vehicles are NASA-designed robotic landers that will be able to land and take off with 1,100 pounds (500 kg) of cargo on the Moon. The prospect is an engine that runs reliably on propellants that are not only cheaper and safer here on Earth, but could also be potentially manufactured on the Moon and Mars. (See: In-situ resource utilization.)

The Alpha prototype lander was manufactured...

Douglas H. Wheelock

participating in the testing and integration of Russian hardware and software products developed for the ISS. He worked extensively with the Energia Aerospace

Douglas Harry "Wheels" Wheelock (born May 5, 1960) is an American engineer and astronaut. He has flown in space twice, logging 178 days on the Space Shuttle, International Space Station, and Russian Soyuz. On July 12, 2011, Wheelock announced that he would be returning to active duty with the United States Army in support of Operation Enduring Freedom. He is currently working with NASA to test the Orion spacecraft at the Glenn Research Center in Plum Brook, Ohio.

Long-Term Mine Reconnaissance System

at-sea testing. The USS Oklahoma City successfully launched the 8 m (20 ft) long vehicle for covert mine countermeasures in September 2005. The USS Scranton

The AN/BLQ-11 autonomous unmanned undersea vehicle (formerly the Long-Term Mine Reconnaissance System (LMRS)) is a torpedo tube-launched and tube-recovered underwater search and survey unmanned undersea vehicle (UUV) capable of performing autonomous minefield reconnaissance as much as 200 kilometers (120 mi) in advance of a host Los Angeles-, Seawolf-, or Virginia-class submarine.

LMRS is equipped with both forward-looking sonar and side-scan synthetic aperture sonar.

Boeing concluded the detailed design phase of the development project on 31 August 1999.

In January 2006, USS Scranton successfully demonstrated homing and docking of an LMRS UUV system during at-sea testing.

History of the tank

capability. The tank was originally designed as a special weapon to solve an unusual tactical situation: the stalemate of the trenches on the Western Front

The history of the tank includes all vehicles intended to advance under enemy fire while remaining protected.

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