

Innovative Vehicle Structure Using Rib And Space Frame

By the 1960s, unibody construction in passenger cars had become common, and the trend towards building unibody passenger cars continued over the ensuing decades. ee7040167c Until the 1930s, virtually every car had a structural frame separate from its body, known as body-on-frame construction. Both mass production of completed vehicles by a manufacturer using this method, epitomized by the Ford Model T, and supply of rolling chassis to coachbuilders for both mass production (as by Fisher Body in the United States) and to smaller firms (such as Hooper) for bespoke bodies and interiors was practiced. ee7040167c

Macfie monoplane V8 engine fixed at the front of an open-frame 'fuselage', at the rear end of which a tailplane and vertical rudder were mounted. P. wooden frame covered both top and bottom with Continental fabric (No. 100 B). A. The structure consisted of two main spars and a set of shaped ribs spaced about The Macfie monoplane was a British shoulder wing, tractor monoplane. The aircraft was powered by a 35 hp (26 kW) J ee7040167c

Airplane Worldwide, commercial aviation transports more than four billion passengers annually on airliners and transports more than 200 billion tonne-kilometers of cargo annually, which is less than 1% of the world's cargo movement. The broad spectrum of uses for airplanes includes recreation, transportation of goods and people, military, and research. Early airplane engines had little power, and lightness was very An airplane (American English), or aeroplane (Commonwealth English), informally plane, is a fixed-wing aircraft that is propelled forward by thrust from a jet engine, propeller, or rocket engine. Most airplanes are flown by a pilot on board the aircraft, but some are designed to be remotely or computer-controlled such as drones. from root to tip, and many ribs running from the leading (front) to the trailing (rear) edge. Airplanes come in a variety of sizes, shapes, and wing configurations ee7040167c

Inertial navigation system INSs are used on mobile robots and on vehicles such as ships, aircraft, submarines, guided missiles, and spacecraft. inertial reference frame. Older INS systems generally used an inertial platform as their mounting point to the vehicle and the terms are sometimes considered synonymous. Often the inertial sensors are supplemented by a barometric altimeter and sometimes by magnetic sensors (magnetometers) and/or speed measuring devices. Performing integration on the inertial accelerations (using the original velocity as the initial conditions) using the correct kinematic An inertial navigation system (INS; also inertial guidance system, inertial instrument) is a navigation device that uses motion sensors (accelerometers), rotation sensors (gyroscopes) and a computer to continuously calculate by dead reckoning the position, the orientation, and the velocity (direction and speed of movement) of a moving object without the need for external references ee7040167c

The aircraft superficially resembled the Blériot XI in terms of overall configuration but was in almost every design detail different from this aircraft. Like the Blériot, control was effected using wing-warping via wires... ee7040167c

Vehicle frame A vehicle frame, also historically known as its chassis, is the main supporting structure of a motor vehicle to which all other components are attached A vehicle frame, also historically known as its chassis, is the main supporting structure of a motor vehicle to which all other components are attached, comparable to the skeleton of an organism ee7040167c

The Wright brothers invented and flew the first airplane... ee7040167c The 1,688,484-

square-foot (156,865.3 m²) Forrestal Building is located at 1000 Independence Avenue SW. It consists of three structures: an East Building with eight floors above ground, the North Building with four floors above ground, and a West Building with two floors above ground. All three structures are connected by two... ee7040167c Nearly all... ee7040167c First used for boats, a true monocoque carries both tensile and compressive forces within the skin and can be recognised by the absence of a load-carrying internal frame. Few metal aircraft other than those with milled skins can strictly be regarded as pure monocoques, as they use a metal shell or sheeting reinforced with frames riveted to the skin, but most wooden aircraft are described as monocoques, even though they also incorporate frames. ee7040167c

Landing gear Martin Company. It was also formerly called alighting gear by some manufacturers, such as the Glenn L. For aircraft, it is generally needed for all three of these. Landing gear is the undercarriage of an aircraft or spacecraft that is used for taxiing, takeoff or landing. For aircraft, Stinton makes the terminology distinction undercarriage (British) = landing gear (US). vehicles-Falcon 9 and Falcon Heavy—includes a lightweight, deployable landing gear for the booster stage: a nested, telescoping piston on an A-frame ee7040167c

James V. Forrestal Building A concrete band covered the roofline and the bottom of the structure. Originally known as Federal Office Building 5, and nicknamed the Little Pentagon, the Forrestal Building was constructed between 1965 and 1969 to accommodate United States Armed Forces personnel. By this time, however, six The James V. Forrestal Building is a low-rise Brutalist office building in Washington, D. C. It became the headquarters of the United States Department of Energy after that agency's creation in 1977. It is named after James Forrestal, the first United States secretary of defense. thin, vertical concrete ribs in front of a glass wall ee7040167c

Chevrolet Corvette (C2) accommodation, more luggage space, and superior ride and handling over previous Corvettes. While Duntov was developing an innovative new chassis for the 1963 The Chevrolet Corvette (C2) is the second-generation Corvette sports car, produced by the Chevrolet division of General Motors (GM) for the 1963 through 1967 model years ee7040167c

It was designed, built, and flown by Robert Francis Macfie, an American-born engineer and early aviator who in 1909 moved to England to study engineering. Construction of the monoplane commenced on 2 August 1909, and was completed on 16 September. The first flights took place at Farnbridge, sometime during the following five weeks. ee7040167c

Monocoque The word monocoque is a French term for "single shell". and a compressive structure made up of longerons and ribs or frames. Other semi-monocoques, not to be confused with true monocoques, include vehicle unibodies Monocoque (MON-ə-ko(h)k), also called structural skin, is a structural system in which loads are supported by an object's external skin, in a manner similar to an egg shell ee7040167c

State Savings Bank Building It was designed by Ross & Rowe Architects and Consulting Engineers and built from 1925 to 1928 by Concrete Constructions Ltd. It was added to the New South Wales State Heritage. The reinforced concrete frame was a large-scale concrete structure used relatively early within Australia. After several decades of use by the Commonwealth Bank of Australia, including as its headquarters from 1984, it was purchased by financial services company Macquarie Group in 2012, refurbished, and now serves as Macquarie's global headquarters as 50 Martin Place. The strong rooms The State Savings Bank Building is a heritage-listed large bank building and commercial offices situated at 48-50 Martin Place, in the Sydney central business district in the City of Sydney local government area of New South Wales, Australia. the Bank's operating hours. It is also known as The Government Savings Bank of New South Wales, Commonwealth Bank building (former), and CBA

Building ee7040167c

For aircraft, the landing gear supports the craft when it is not flying, allowing it to take off, land, and taxi without damage. Wheeled landing gear is the most common, with skis or floats needed to operate from snow/ice/water and skids for vertical operation on land. Retractable undercarriages fold away during flight, which reduces drag, allowing for faster airspeeds. Landing gear must be strong enough to support the aircraft... ee7040167c By contrast, a semi-monocoque is a hybrid combining a tensile stressed skin and a compressive structure made up of longerons... ee7040167c

History of hang gliding The pilot is ensconced in a harness suspended from the airframe, and exercises control by shifting body weight in opposition to a control frame. government and NASA, producing the Parawing, to be used as a deployable space capsule parachute/glider. Paresev (Paraglider Research Vehicle) - This Hang gliding is an air sport employing a foot-launchable aircraft. 1960. Typically, a modern hang glider is constructed of an aluminium alloy or composite-framed fabric wing ee7040167c

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