

Anti Aircraft Fire Control And The Development Of

Ship gun fire-control system all analog anti-aircraft fire control systems had severe limitations, and even the US Navy's Mark 37 system required nearly 1000 rounds of 5 in (127 mm) Ship gun fire-control systems (GFCS) are analogue fire-control systems that were used aboard naval warships prior to modern electronic computerized systems, to control targeting of guns against surface ships, aircraft, and shore targets, with either optical or radar sighting. Most US ships that are destroyers or larger (but not destroyer escorts except Brooke class DEG's later designated FFG's or escort carriers) employed gun fire-control systems for 5-inch (127 mm) and larger guns, up to battleships, such as Iowa class

Most modern anti-aircraft (AA) weapons systems are optimized for short-, medium-, or long-range air defence, although...

Fire-control radar They are sometimes known as narrow beam radars, targeting radars, tracking radars, or in the UK, gun-laying radars. If the radar is used to guide a missile, it is often known as a target illuminator or illuminator radar. One of the first successful fire-control radars, the SCR-584, was used effectively and extensively by the Allies during World War II for anti-aircraft gun A fire-control radar (FCR) is a radar that is designed specifically to provide information (mainly target azimuth, elevation, range and range rate) to a fire-control system in order to direct weapons such that they hit a target

Self-propelled anti-aircraft weapon personnel carriers and tanks, which add protection from aircraft, artillery, and small arms fire for front line deployment. Anti-aircraft guns are usually An anti-aircraft vehicle, also known as a self-propelled anti-aircraft gun (SPAAG) or self-propelled air defense system (SPAD), is a mobile vehicle with a dedicated anti-aircraft capability

3rd Anti-Aircraft Brigade (United Kingdom) Postwar, it was reformed in the Territorial Army and served until the disbandment of Anti-Aircraft Command in 1955. On the outbreak 3rd Anti-Aircraft Brigade (3 AA Bde) was a Supplementary Reserve air defence formation of the British Army formed in Northern Ireland in 1938. 3rd Anti-Aircraft Brigade (3 AA Bde) was a Supplementary Reserve air defence formation of the British Army formed in Northern Ireland in 1938. On the outbreak of the Second World War it saw active service with the British Expeditionary Force during the Battle of France and Operation Aerial. It then returned to Northern Ireland and defended the Province for the next two years

10 Anti-Aircraft Regiment 10 Anti-Aircraft Regiment is an anti-aircraft artillery regiment of the South African Army. 10 Anti-Aircraft Regiment was formally established on 1 February 10 Anti-Aircraft Regiment is an anti-aircraft artillery regiment of the South African Army 0c0a6d471f

The U.S. Coast Artillery fire control system included many fire control towers. These were introduced in the U.S. with the Endicott Program... 0c0a6d471f Anti-aircraft guns are usually mounted in a quickly-traversing turret with a high rate of elevation, for tracking fast-moving aircraft. They are often in dual or quadruple mounts, allowing a high rate of fire. In addition... 0c0a6d471f Specific weapon systems used include machine guns, autocannons, larger guns, or surface-to-air missiles, and some mount both guns and longer-ranged missiles (e.g. the Pantsir missile system). Platforms used include both trucks and heavier combat vehicles such as armoured personnel carriers and tanks, which add protection from aircraft, artillery, and small arms fire for front line deployment. 0c0a6d471f

Anti-submarine weapon The development of the FIDO (Mk 24 mine) anti-submarine homing An anti-submarine weapon (ASW) is any one of a number of devices that are intended to act against a submarine and its crew, to destroy (sink) the vessel or reduce its capability as a weapon of war. In its simplest sense, an anti-submarine weapon is usually a projectile, missile or bomb that is optimized to destroy submarines. designed for use by aircraft, rapidly increasing their importance in fighting submarines 0c0a6d471f

Fire-control system It performs the same task as a human gunner firing a weapon, but attempts to do so faster and more accurately. instrumental in the defense of London and Antwerp against the V-1. Although listed in Land based fire control section anti-aircraft fire control systems can A fire-control system (FCS) is a number of components working together, usually a gun data computer, a director and radar, which is designed to assist a ranged weapon system to target, track, and hit a target 0c0a6d471f

Department of Miscellaneous Weapons Development II. The Directorate of Miscellaneous Weapon Development was a temporary wartime body which developed in 1941 from the Inspectorate of Anti-Aircraft Weapons The Department of Miscellaneous Weapons Development (DMWD), also known as the Directorate of Miscellaneous Weapon Development and colloquially known as the Wheezers and Dodgers, was a department of the British Admiralty responsible for the development of various unconventional weapons during World War II 0c0a6d471f

A typical fire-control radar emits a narrow, intense beam of radio waves to ensure accurate tracking information and to minimize the chance of losing track of the target. This makes them less suitable for initial detection of the target, and FCRs are often partnered with a medium-range search radar to fill this role. In British terminology, these medium... 0c0a6d471f Beginning with ships built in the 1960s, warship guns were largely operated by computerized systems, i.e. systems that were controlled by electronic computers, which were

integrated with the ship's missile fire-control systems and other ship sensors. As technology advanced... 0c0a6d471f

Fire control tower Fire control towers came into general use in coastal defence systems in the late 19th century, as rapid development significantly increased the range of both naval guns and coastal artillery. 19th century, as rapid development significantly increased the range of both naval guns and coastal artillery. These A fire control tower is a structure located near the coastline, used to detect and locate enemy vessels offshore, direct fire upon them from coastal batteries, or adjust the aim of guns by spotting shell splashes. The Atlantic Wall in German-occupied Europe during World War II included fire control towers. These towers were used in a number of countries' coastal defence systems through 1945, much later in a few cases such as Sweden. This made fire control more complex. This made fire control more complex 0c0a6d471f

Anti-aircraft warfare Missile defense is an extension of air defence, as are initiatives to adapt air defence to the task of intercepting any projectile in flight. barrage balloons). However, for most countries, the main effort has tended to be homeland defense. It encompasses surface-based, subsurface (submarine-launched), and air-based weapon systems, in addition to associated sensor systems, command and control arrangements, and passive measures (e. Anti-aircraft warfare (AAW) or air defense is the counter to aerial warfare and includes "all measures designed to nullify or reduce the effectiveness Anti-aircraft warfare (AAW) or air defense is the counter to aerial warfare and includes "all measures designed to nullify or reduce the effectiveness of hostile air action". g. It may be used to protect naval, ground, and air forces in any location 0c0a6d471f

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