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guidance systems mainly consist of three parts navigation for tracking the current location of the missile guidance for directing the missile towards the target using navigation data and target information and control for applying guidance commands on the missile guidance navigation and control abbreviated gnc gn c or g c is a branch of engineering dealing with the design of systems to control the movement of vehicles especially automobiles ships aircraft and spacecraft in many cases these functions can be performed by trained humans introduction gnc is focused on the design of systems to control the movement and position of platforms such as missiles space and airborne platforms ground vehicles and maritime and underwater platforms missile guidance refers to a variety of methods of guiding a missile or a guided bomb to its intended target the missile s target accuracy is a critical factor for its effectiveness guidance systems improve missile accuracy by improving its probability of guidance pg 1 the guidance system of a rocket includes very sophisticated sensors on board computers radars and communication equipment the guidance system has two main roles during the launch of a rocket to provide stability for the rocket and to control the rocket during maneuvers an inertial navigation system ins also inertial guidance system inertial instrument is a navigation device that uses motion sensors accelerometers rotation sensors 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 have you ever wondered how guided missiles operate with such deadly and precise accuracy if you have ever heard of the iron dome then you are familiar with the guidance algorithm issues command to the autopilot to enable the missile to be guided onto the target this requires great precision and very fast response from the missile airframe in this paper we present the current trends on missile guidance systems design fast facts guided multiple launch rocket system gmlrs is the combat proven highly accurate all weather low collateral damage precision guided primary round for mlrs systems capabilities 15 70 km range guidance inertial navigation system w global positioning system warhead unitary and alternative warhead options milestones rocket and missile system tactical guided missiles guided missiles were a product of post world war ii developments in electronics computers sensors avionics and to only a slightly lesser degree rocket and turbojet propulsion and aerodynamics the systems engineering guidebook provides guidance and recommended best practices for defense acquisition programs much of this information appeared previously in the defense for a given interceptor confi guration the central role of the guidance and control g c algorithms is to functionally integrate the subsystems to ensure that all requirements are met and that lethality is consistently maximized to do this several critical g c functions must be considered this function allows you to activate semi system guided processing within system guided processing this is useful for source storage bins that have more than one handling unit hu in system guided processing the system proposes one particular hu to the user for processing missile but it was in their guidance systems that these missiles gained their distinction since the ability to make down course corrections in order to seek or home onto a target separated guided missiles from purely ballistic weapons such as free flight rockets and artillery shells lightguide s augmented reality ar software transforms manual processes by projecting digital step by step work instructions onto an employee s work surface standardizing and error proofing the work the upper guide system guides the support working guide and the lower guides the tailstock adjustment guide system a positive design feature is the internal wrap around which ensures high stiffness as well as the easy to machine flat guide systems a guidance system is a virtual or physical device or a group of devices implementing a controlling the movement of

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