

Inertial Navigation System Of Pershing Missile

United States. Congress. Senate. Committee on Armed Services

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THIS IS REDSTONE MISSILE WEAPON Chrysler Corporation Missile Division, 2012-05 Named in honor of the Redstone Arsenal in Huntsville Alabama where it was developed, the SSM-A-14 Redstone was the first large ballistic missile in the U.S. inventory. Designed by the Army Ballistic Missile Agency under the leadership of the brilliant Wernher von Braun, Redstone was a direct descendant of the A-4 / V-2 rocket produced in Nazi Germany. Design work on the missile was finished in 1952. It incorporated many innovations including inertial guidance and a separable warhead section that, by decreasing drag, increased the weapon's range. Steerable rudders and refractory carbon vanes mounted in the rocket engine's exhaust, ensured course control. Redstone first flew on August 20, 1953 although the result was inauspicious - it traveled a mere 4.5 miles. Test flights continued over the next five years, and many refinements were made to ensure reliability. The final production version had a range of just over 200 nautical miles, or 175 carrying a W-39 nuclear warhead. In August of 1958, a Redstone became the first American missile to participate in a nuclear test, detonating a 3.8 megaton warhead as part of Operation Hardtack. In the field however, the Redstone missile proved cumbersome to move into position and time consuming to activate. The process could require twenty support vehicles and eight hours of work. A minimum of fifteen minutes' fueling time - an eternity in a combat situation - was needed after receiving a launch order. The solid fueled Pershing missile, which replaced the Redstone in late 1964, overcame these shortcomings. While Redstone's role as a weapon system was brief, it had a major impact on America's early space program. In January of 1958, just four months before the U.S. Army activated the Redstone in Germany, a modified version designated Jupiter-C put Explorer, America's first satellite, into orbit. In 1961, the Mercury-Redstone Launch Vehicle lifted Alan Shepard into space. Originally created in 1959 by prime contractor Chrysler Corporation, which built 101 of the 128 missiles produced, This is Redstone provides a detailed overview of this historic weapons system. It includes chapters about the missile's structure, operation, propulsion and propellant systems, ground support equipment, guidance and controls, firing site operations, and more.

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Table of Contents Inertial Navigation System Of Pershing Missile

1. Understanding the eBook Inertial Navigation System

Of Pershing Missile

- The Rise of Digital Reading Inertial Navigation System Of Pershing Missile
 - Advantages of eBooks Over Traditional Books
- ### 2. Identifying Inertial Navigation System Of Pershing

Missile

- Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Inertial Navigation System Of Pershing Missile
 - User-Friendly Interface
 4. Exploring eBook Recommendations from Inertial Navigation System Of Pershing Missile
 - Personalized Recommendations
 - Inertial Navigation System Of Pershing Missile User Reviews and Ratings
 - Inertial Navigation System Of Pershing Missile and Bestseller Lists
 5. Accessing Inertial Navigation System Of Pershing Missile Free and Paid eBooks
 - Inertial Navigation System Of Pershing Missile Public Domain eBooks
 - Inertial Navigation System Of Pershing Missile eBook Subscription Services
 - Inertial Navigation System Of Pershing Missile Budget-Friendly Options
 6. Navigating Inertial Navigation System Of Pershing Missile eBook Formats
 - ePub, PDF, MOBI, and More
 - Inertial Navigation System Of Pershing Missile Compatibility with Devices
 - Inertial Navigation System Of Pershing Missile

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7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Inertial Navigation System Of Pershing Missile
 - Highlighting and Note-Taking Inertial Navigation System Of Pershing Missile
 - Interactive Elements Inertial Navigation System Of Pershing Missile
8. Staying Engaged with Inertial Navigation System Of Pershing Missile
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Inertial Navigation System Of Pershing Missile
9. Balancing eBooks and Physical Books Inertial Navigation System Of Pershing Missile
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Inertial Navigation System Of Pershing Missile
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Inertial Navigation System Of Pershing Missile
 - Setting Reading Goals Inertial Navigation System Of Pershing Missile
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Inertial Navigation System Of Pershing Missile

- Fact-Checking eBook Content of Inertial Navigation System Of Pershing Missile
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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