



Providing US Government information at the speed of lightning.

Search Storming Media Titles, Authors and

SEARCH

Advanced Search

- [Home](#)
- [About Us](#)
- [Contact Us](#)
- [View Cart](#)
- [Customer Service](#)
- [Advanced Search](#)

PROPULSION, ENGINES AND MISSILES: Surface-Launched Guided Missiles

ADD TO CART

EMAIL A COLLEAGUE

STRAT MISSILER: A Strategic Missile (ICBM/SLBM) Analysis Computer Model

Authors: ASSISTANT CHIEF OF STAFF STUDIES AND ANALYSES (AIR FORCE) WASHINGTON DC

Abstract: STRAT MISSILER is a systemized grouping of computer subsystems for evaluating the effectiveness of strategic missile forces. Types of issues this model will address are force survivability, force sizing, and force characteristics. This computer program, inter alia, may assist the analyst in performing two principal functions: (1) Producing a realistic strategic plan incorporating the primary ICBM/SLBM physical and operational constraints, (2) Providing a net assessment of the effectiveness of the forces participating in the strategic plan. The model, STRAT MISSILER, possesses the flexibility to treat a broad spectrum of strategic missions and missile systems. A model design emphasizes (1) the realistic modeling of constraints and (2) the acceptance of analyst controls.

Limitations: APPROVED FOR PUBLIC RELEASE

Pages: 46

Report Date: 20 JUN 1979

Report number: A573563

Price: \$26.95 (27% savings) - [Shipping terms](#)

KEYWORDS RELATED TO THIS REPORT

- ▶ INTERCONTINENTAL BALLISTIC MISSILE
- ▶ WEAPON SYSTEM EFFECTIVENESS
- ▶ SUBMARINE LAUNCHED
- ▶ STRATEGIC WEAPON
- ▶ UNDERWATER TO SURFACE MISSILE
- ▶ COMPUTERIZED SIMULATION



Providing US Government information at the speed of lightning.

Search Storming Media Titles, Authors and

SEARCH

Advanced Search

Home

About Us

Contact Us

View Cart

Customer Service

Advanced Search

NUCLEAR SCIENCE AND TECHNOLOGY: Nuclear Warfare

ADD TO CART

EMAIL A COLLEAGUE

Naval Surface Warfare Center Dahlgren Division Technical Digest 1997 Issue

Authors: NAVAL SURFACE WARFARE CENTER DAHLGREN DIV VA

Abstract: In short, four thrusts associated with future strategic systems have been identified: maintenance of the industrial base, improved planning systems, modernization and life extension of existing systems, and the expansion of the strategic mission. Specific articles related to these four thrusts include: (1) The Reentry Systems Application Program, (2) Wind Tunnel Testing of Strategic Systems, (3) Evaluation of Reentry Systems Noses and Heatshields Using an Arc Heater Facility, (4) Moving Mass Roll Control for Fixed Trim Reentry Bodies, (5) FREE Algorithm for Solution of an SLBM Multiple Constraint Mission Problem, (6) Fuzzy Logic Based Expert System Solutions to Sequencing and Grouping Problems, (7) High Altitude Electromagnetic Pulse (HEMP), (8) Developing Software for a Distributed, Synchronous, Real Time System, (9) Point Mass, Dipole, and Quadrupole Gravity Modeling for FBM Systems Support, (10) Computation of Ballistic Parameters for SLBM and (11) Advanced Technology Demonstration of the Naval Tactical Missile System (NATACMS).

Limitations: APPROVED FOR PUBLIC RELEASE

Description: Technical digest

Pages: 139

Report Date: 1997

Report number: A439233

Price: \$36.95 (29% savings) - [Shipping terms](#)

KEYWORDS RELATED TO THIS REPORT

- ▶ NUCLEAR WARFARE
- ▶ BALLISTIC MISSILE SUBMARINES
- ▶ UNDERWATER TO SURFACE MISSILES
- ▶ ALGORITHMS
- ▶ ATTITUDE CONTROL SYSTEMS
- ▶ GUIDED MISSILE TRAJECTORIES
- ▶ ATMOSPHERE ENTRY
- ▶ QUADRUPOLE MOMENT
- ▶ WIND TUNNEL TESTING
- ▶ EXPERT SYSTEMS
- ▶ SUBMARINE LAUNCHED
- ▶ NOSE TIPS
- ▶ ELECTROMAGNETIC PULSES
- ▶ ARC HEATERS
- ▶ FUZZY LOGIC



Providing US Government information at the speed of lightning.

Search Storming Media Titles, Authors and

SEARCH

Advanced Search

Home

About Us

Contact Us

View Cart

Customer Service

Advanced Search

SOCIAL SCIENCES: Economics and Cost Analysis

ADD TO CART

EMAIL A COLLEAGUE

A Hard and Deeply Buried Target Defeat Concept

Authors: Swinford, Nancy F.; Kudlick, Dean A.; LOCKHEED MARTIN MISSILES AND SPACE CO SUNNYVALE CA

Abstract: A Mission Need Statement (MNS) written by the United States Strategic Command and the Air Force's Air Combat Command has generated the current study of a Hard and Deeply Buried Target Defeat Capability, which combines target construction and purpose with weapon technologies and capabilities to determine cost effective solutions for hardened target defeat. A promising solution consists of a conventional Submarine Launched Ballistic Missile (SLBM) that delivers a modified, existing reentry body (RB) aeroshell encasing a unitary penetrator. The accuracy is controlled by a tightly coupled Global Positioning Satellite receiver and Inertial Measurement Unit (GPS/IMU) system. This paper examines the benefits and challenges of the SLBM-delivered RB. The selected control system is discussed relative to the performance requirements imposed by the aeroshell size and packaging constraints. One of the major challenges for an SLBM system is slowing down to meet the penetrator constraints. Current RB aerodynamic performance capabilities, trajectory shaping required to meet the penetrator impact conditions, and the control system concept are reviewed. Finally, future areas to be investigated are discussed.

Limitations: APPROVED FOR PUBLIC RELEASE

Pages: 17

Report Date: 1996

Report number: A867813

Price: \$19.95 (40% savings) - [Shipping terms](#)

KEYWORDS RELATED TO THIS REPORT

- COST EFFECTIVE
- PENETRATION
- TARGETING
- BURIED OBJECT:
- SUBMARINE LAUNCHED
- WEAPONS
- REENTRY VEHICLE
- GUIDED MISSILE
- REQUIREMENTS
- UNITED STATES
- CONTROL SYSTEM
- IMPACT
- PERFORMANCE (ENGINEERING)
- ACCURACY
- TARGETS
- SOLUTIONS(GENERAL)
- CONSTRUCTION
- GLOBAL POSITIONING SYSTEM
- COMMAND AND CONTROL SYSTEM
- AERODYNAMIC CHARACTERISTICS
- PACKAGING