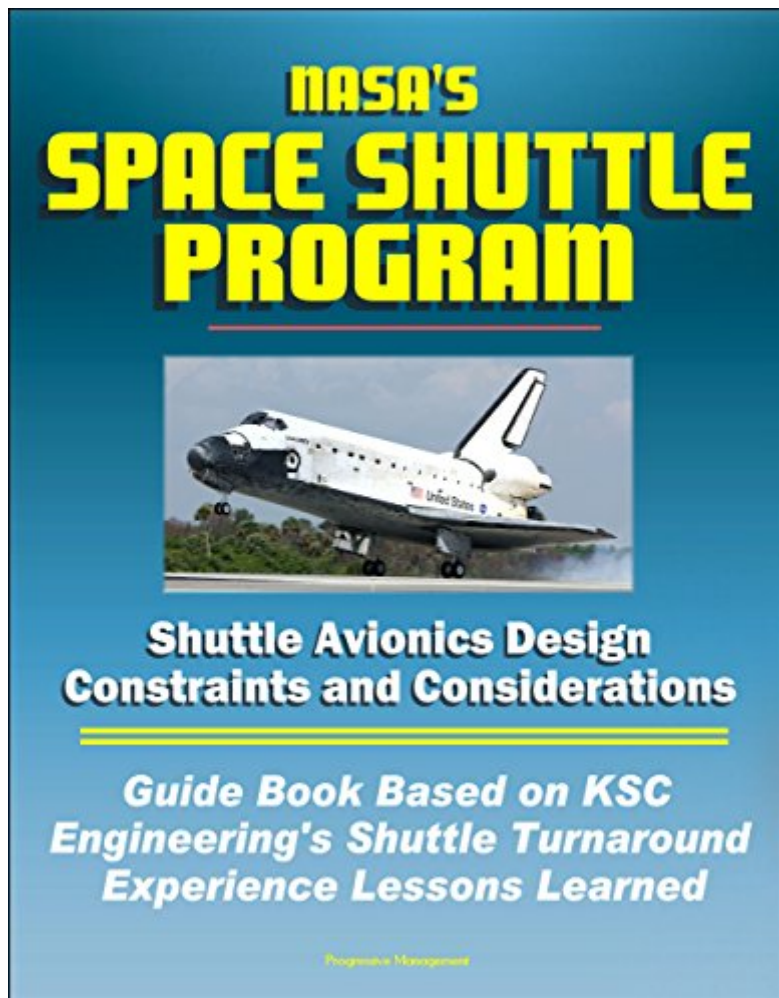




The book was found

# **NASA's Space Shuttle Program: Shuttle Avionics Design Constraints And Considerations - Guide Book Based On KSC Engineering's Shuttle Turnaround Experience Lessons Learned**





## Synopsis

This unique NASA report provides information and lessons learned from shuttle avionics testing constraints. Objective - Consolidate within one report the operational Constraints and Considerations for launch site testing of the present Shuttle Avionics systems. Constraint - Testing that requires special vehicle configurations and ground support equipment configurations.

Consideration - Testing configurations that have driven special infrastructure/ resource requirements, or have high failure rates. Purpose - To provide to the designers of future avionics systems the information required to possibly design out these concerns. Contents: GENERAL \* 1.

INSTRUMENTATION COEFFICIENTS \* 2. TELEMETRY DATA AVAILABILITY \* 3. AVIONICS COOLING \* 4. CONNECTOR RETEST \* 5. CONNECTOR MATED INDICATION \* 6. PARALLEL SWITCH CONTROL \* 7. MAN-IN-THE-LOOP \* 8. AVIONICS LRU ACCESS / MOUNTING \* 9. AVIONICS LRU FASTENING DEVICES \* 10. AVIONICS LRU GROUND HANDLING EQUIPMENT \* 11. AVIONICS BITE / TEST POINTS \* 12. CRITICAL REDUNDANT POWER VERIFICATION \* 13. SOFTWARE IN END-ITEM \* 14. LOCAL OPF OPERATION \* 15. UNPLANNED WORK \* 16. VENDOR DRAWINGS \* 17. HYDRAULICS \* DPS \* 1. MEMORY DUMP & COMPARE \* 2. MASS STORAGE DEVICE CAPABILITY \* 3. GPC MULTIPLE MEMORY CONFIGURATIONS \* 4. LAUNCH BUS SPEEDUP \* 5. MDM RETEST \* 6. CRT VIDEO OUTPUT \* GNC \* 1. INDEPENDENT CONTROL OF ACTUATOR POWER \* 2. ENGINE COLLISION \* 3. SSME HYDRAULIC CIRCUITS ISOLATION \* 4. ENGINE CHANGEOUTS DRIVE CLEARANCE TESTS \* 5. SRB TVC FLEX BEARING RESTRICTION \* 6. SRB NOZZLE FLEX BEARING TEMPERATURE \* 7. EXCESSIVE AEROSURFACE POSITIONING REQUIREMENTS \* 8. NOSEWHEEL STEERING (NWS) TESTING \* 9. BRAKES/ANTI-SKID MAINTAINABILITY \* 10. REACTION CONTROL SYSTEM (RCS) VERNIER DRIVERS \* 11. RCS DRIVERS-DRIVER POWER ACTIVATION \* 12. ACCELEROMETER ASSEMBLIES (AA) INACCESSIBLE \* 13. IMU HEALTH ASSESSMENT \* 14. STAR TRACKER LENS & LIGHT SHADE INSPECTION \* 15. STAR TRACKER CONTAMINATION \* 16. ENTRY AIR DATA SENSORS UNDEPENDABLE \* 17. DEPLOYABLE ENTRY AIR DATA PROBES \* TELECOMM \* 1. HOLLOW RF WAVEGUIDES THAT PENETRATE PRESSURIZED STRUCTURE \* 2. HAZARDOUS RF SYSTEMS & GROUND ANTENNA COUPLER REQUIREMENTS \* RMS \* 1. AUDIBLE TESTING \* SSME \* 1. SSME INSTRUMENTATION CALIBRATION COEFFICIENTS \* GLOSSARY/ACRONYMS

## Book Information

File Size: 2555 KB

Print Length: 136 pages

Simultaneous Device Usage: Unlimited

Publisher: Progressive Management (August 12, 2014)

Publication Date: August 12, 2014

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B00MOOL48C

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Enabled

Screen Reader: Supported

Enhanced Typesetting: Enabled

Best Sellers Rank: #2,709,063 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #94

in Kindle Store > Books > Engineering & Transportation > Engineering > Aerospace > Avionics #793

in Kindle Store > Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design &

Construction #1503 in Kindle Store > Kindle eBooks > Nonfiction > Science > Astronomy &

Space Science > Aeronautics & Astronautics

## Customer Reviews

Very detailed worth the money

[Download to continue reading...](#)

NASA's Space Shuttle Program: Shuttle Avionics Design Constraints and Considerations - Guide Book Based on KSC Engineering's Shuttle Turnaround Experience Lessons Learned NASA Space Shuttle Manual: An Insight into the Design, Construction and Operation of the NASA Space Shuttle (Owners' Workshop Manual) NASA Space Shuttle Manual: An Insight into the Design, Construction and Operation of the NASA Space Shuttle Business Turnaround Blueprint: Take Back Control of Your Business and Turnaround Any Area of Poor Performance (A Business Book for the Hard-Working Business Owner) Mars: Our New Home? - National Plan to Conquer the Red Planet (Official Strategies of NASA & U.S. Congress): Journey to Mars - Information, Strategy and ... Act to Authorize the NASA Program The World of the Theory of Constraints: A Review of the International Literature (The CRC Press Series on Constraints Management) Enduring Myths That Inhibit School Turnaround (Contemporary Perspectives on School Turnaround and Reform) Wheels

Stop: The Tragedies and Triumphs of the Space Shuttle Program, 1986-2011: Outward Odyssey: A People's History of Space NASA Mercury - 1956 to 1963 (all models): An insight into the design and engineering of Project Mercury - America's first manned space programme (Owners' Workshop Manual) NASA Hubble Space Telescope - 1990 onwards (including all upgrades): An insight into the history, development, collaboration, construction and role of ... space telescope (Owners' Workshop Manual) Avionics: Development and Implementation (The Avionics Handbook, Second Edition) Avionics: Elements, Software and Functions (The Avionics Handbook, Second Edition) Jane's Avionics 2007-2008 (Jane's Flight Avionics) To Space and Back: The Story of the Shuttle (Adventures in Space) Weight Watchers My QuikTrak Diary - 12 Week Core & Flex (Weight Watchers TurnAround Program, QuikTrak) Love, Medicine and Miracles: Lessons Learned about Self-Healing from a Surgeon's Experience with Exceptional Patients Earth and Space Coloring Book: Featuring Photographs from the Archives of NASA Internet Business Insights: Lessons Learned and Strategies Used by 101 Successful Internet-Based Entrepreneurs (Internet Business Books) Earth and Space: Photographs from the Archives of NASA Earth and Space 2018 Wall Calendar: Photographs from the Archives of NASA

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)