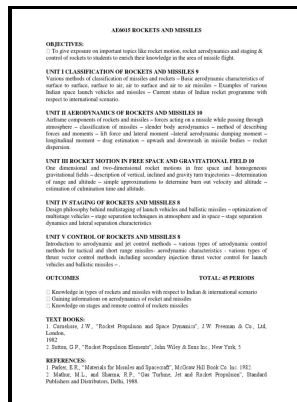


# Materials for missiles and spacecraft

## McGraw-Hill - MISSILE AND SPACECRAFT STRUCTURAL DESIGN AND ANALYSIS



Description: -

- Guided missiles -- Materials.

Space vehicles -- Materials. Materials for missiles and spacecraft

- University of California engineering and sciences extension series.

University of California. Engineering and sciences extension series. Materials for missiles and spacecraft

Notes: Includes bibliography.

This edition was published in 1963



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### What Materials Can Survive in Space?

These updates range from overviews of the commercial spaceflight industry, to design breakdowns of our subsystems, to lessons learned from engineering and design challenges from past space-exploration endeavors.

### Materials and Manufacturing

**Thermal Glass** The space shuttles needed windows that would allow the astronauts to see out of clearly without allowing heat to pass through the material.

**Titanium is strategic material used in aircraft, armor plating, naval ships, spacecraft, and missiles.**

A bonding layer of ultra-thin unidirectional carbon fiber was introduced between the TPLs and CFRP to improve the constituent interface.

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### Space Structure Materials and Advanced Space Structure Design

Chromel-R is like the woven glass mats of beta cloth, but made of hard, coated metal wires.

### Space Structure Materials and Advanced Space Structure Design

MTS Systems is working on the development and demonstration of new, advanced materials testing technologies, as part of a cooperative research and development agreement CRADA signed with the US Air Force USAF. Fiberglass, particularly the S-glass variant, can be subjected to 3 percent strain without harm and is useful for applications requiring large strain capability, but its strength and stiffness is unremarkable.

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Titanium is as strong as steel but half its weight; it is also twice as strong as aluminum yet nearly equal in weight.

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