

Exploring Aerospace Materials

>> Metallic Materials

Key Properties:

- Excellent strength-to-weight ratios
- Corrosion resistance
- High temperature resistance

Examples:

- Aluminum alloys
- Titanium alloys

Applications:

- Aircraft structures, components (Al)
- Engine parts, airframes (Ti)

> Polymeric Materials

Key Properties:

- Lightweight properties
- Corrosion resistance

Examples:

- Fiber-reinforced thermoplastics
- Thermosetting plastics

Applications:

- Matrices for composite materials

| Composites

Key Properties:

- High strength & stiffness
- Fatigue resistance
- Minimal weight

Examples:

- Carbon-fiber-reinforced polymers (CFRPs)
- Glass fiber composites

Applications:

- Wings, Fuselages
- Tail structures

| Ceramic Materials

Key Properties:

- High-temperature resistance
- Thermal stability

Applications:

- Turbine engine parts
- Extreme temperature/oxidative environments

**Mechanics Of Aerospace Materials Materials Science
Monographs Volume 9**

M Woodhall



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