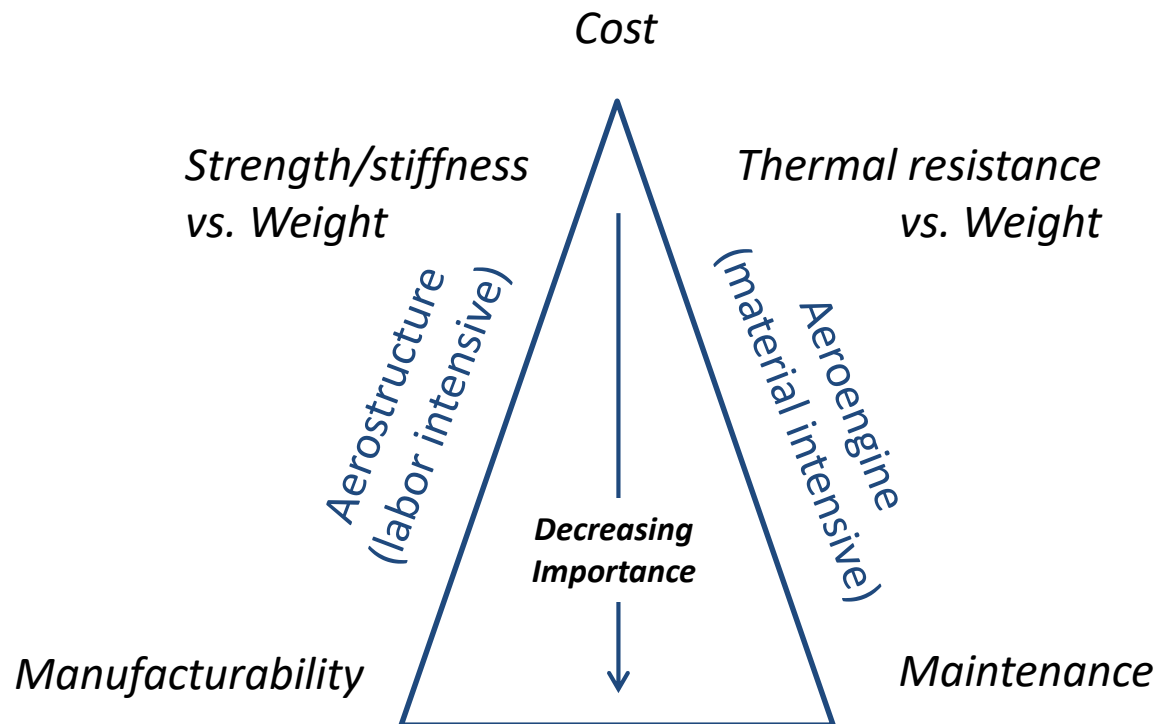


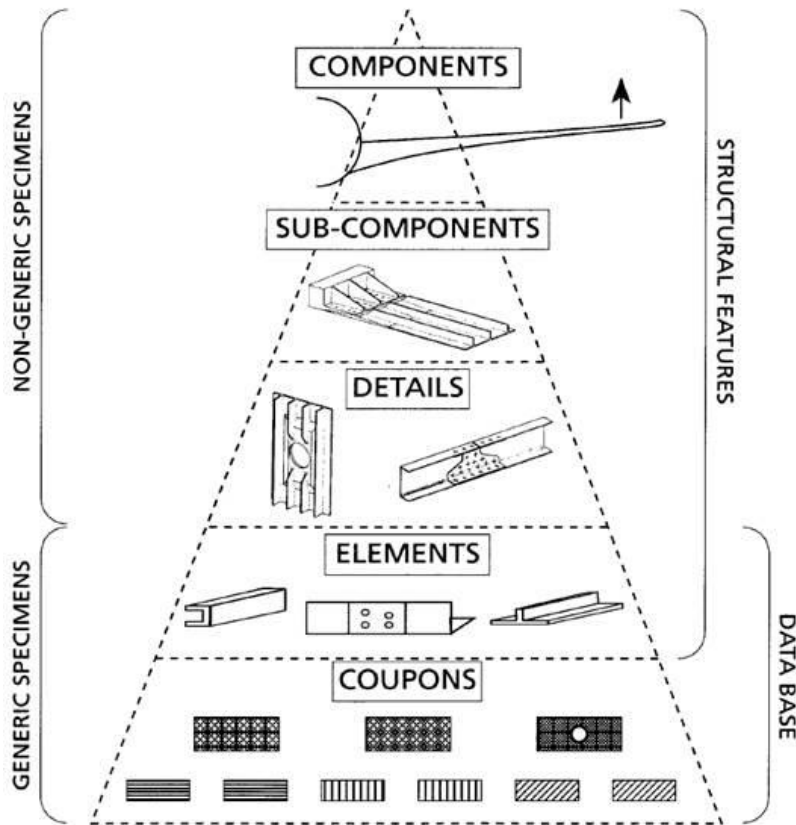
# Aerostructure and aeroengine design objectives drive their respective material usage

## Aerospace Design Considerations



# FAA/EASA rigorous certification process helps to ensure aircraft safety

## Aircraft Design Substantiation



- Certification is process of substantiating both aircraft design and production
- Engineering proves structure can withstand anticipated static and dynamic loads
- Testing begins with material samples to identify basic material properties
- In certain cases, full-scale testing is required – expensive both in time and money

# SAE is one such Standards Development Organization (SDO) responsible for driving aeromaterial advancement

## SAE Aerospace Material Specifications (AMS) Timeline

