

# Space Shuttle System

Intro

Solid Rocket Boosters

External Tank

Orbiter

## THE SPACE SHUTTLE SYSTEM

The Space Shuttle consists of three major components: the Orbiter which houses the crew; a large External Tank that holds fuel for the main engines; and two Solid Rocket Boosters which provide most of the Shuttle's lift during the first two minutes of flight. All of the components are reused except for the external fuel tank, which burns up in the atmosphere after each launch.

In this feature, we explore the components of the Space Shuttle System.



### Length

Space Shuttle: 184 feet  
Orbiter: 122 feet

### Height

Orbiter on runway: 57 feet

### Wingspan

78 feet

### Liftoff Weight\*

4.5 million pounds

### Orbit

115 to 400 statute miles  
Velocity: 17,321 mph

\* weight will vary depending on payloads and on board consumables.

# Elements Of Spacecraft Design

**Scott C. Dulebohn**



## **Elements Of Spacecraft Design:**

**Elements of Spacecraft Design** Charles D. Brown, 2002 Annotation This text discusses the conceptual stages of mission design systems engineering and orbital mechanics providing a basis for understanding the design process for different components and functions of a spacecraft Coverage includes propulsion and power systems structures attitude control thermal control command and data systems and telecommunications Worked examples and exercises are included in addition to appendices on acronyms and abbreviations and spacecraft design data The book can be used for self study or for a course in spacecraft design Brown directed the team that produced the Magellan spacecraft and has taught spacecraft design at the University of Colorado Annotation c Book News Inc Portland OR booknews com **Elements of Spacecraft Design** G. M. T. D'Eleuterio, 1987 *AIAA Journal* American Institute of Aeronautics and Astronautics, 2005 *Spacecraft Mission Design* Charles D. Brown, 1998 *Spacecraft Mission Design* Second Edition takes the shortest route to practical understanding of mission design It focuses on the most general and most practical tools needed for the early spacecraft design studies including the principles of two body motion definition of orbits orbital maneuvers and central body observation *Journal of Guidance, Control, and Dynamics* ,2007 *Journal of the British Interplanetary Society* British Interplanetary Society, 1985 Bound with vol 1 1934 is the Society s annual report and list of members 1934 *Aerospace Design and Systems Engineering Elements I. Spacecraft (bus) Design and Sizing* B.T.C. Zandbergen, Faculty of Aerospace Engineering, 2010 *Aerospace America* ,2005 **Surveyor Project Final Report: Project description and performance (2 v.)** ,1969 *Journal of Thermophysics and Heat Transfer* ,2004 **Space Mission Analysis and Design** Wiley J. Larson, James Richard Wertz, 1992 This volume appropriate as a textbook for either advanced undergraduate or beginning graduate courses or as a reference for those already working in space technology addresses the art and science of preliminary space mission design beginning with a blank sheet of paper and creating a space mission to meet a set of broad often poorly defined objectives This revised and updated edition adds new sections on defining the overall mission concept subject trades guidance and navigation and applying the mission analysis and design process to reduce cost and risk in later program stages This volume also inaugurates the Space Technology Series a cooperative activity of the US Dept of Defense and NASA Annotation copyright by Book News Inc Portland OR *AIAA Aerospace Design Conference: 92-0973 - 92-1010* ,1992 *1974 Annual Reliability and Maintainability Symposium* ,1974 **The British National Bibliography** Arthur James Wells, 2003 **AIAA 83-0204 - AIAA 83-0309** ,1983 **AIAA/AAS Astrodynamics Conference** ,1978 **Computer Program Abstracts** ,1971 **Thirty-sixth AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference and AIAA/ASME Adaptive Structures Forum** ,1995 *Scientific and Technical Aerospace Reports* ,1973 *The Microwave Radiometer Spacecraft* ,1981

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