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3.2.4 Stage System Design Process and Technology3.3 Propulsion Systems; 3.3.1 Chemical Propulsion Basics; 3.3.2 Types of Engines; 3.3.3 Engine Components; 3.3.4 Special Problems; 3.3.5 Facilities for Rocket Engine Testing; 3.3.6 Future Propulsion Systems; Bibliography; 3.4 Launch Infrastructure; 3.4.1 Requirements and Missions; 3.4.2 Concepts; 3.4.3 One Realized Example: Ariane 5; 3.4.4 Major Launch Sites; 3.5 System Qualification; 3.5.1 Introduction; 3.5.2 Categories of Qualification; 3.5.3 Mechanical Qualification; 3.5.4 Functional Qualification; 4 Subsystems of Spacecraft
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4.3.3 Development of the Thermal System

Sommario/riassunto

Twenty years since the first edition was published in the German language, and just over fifty years since the launch of the Earth's first ever artificial satellite Sputnik 1, this third edition of the Handbook of Space Technology presents in fully integrated colour a detailed insight into the fascinating world of space for the first time in the English language. Authored by over 70 leading experts from universities, research institutions and the space industry, this comprehensive handbook describes the processes and methodologies behind the development, construction, operation