

MATERIALS AND STRUCTURES SYMPOSIUM (C2)
Space Structures I - Development and Verification (Space Vehicles and Components) (1)

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THE DEVELOPMENT HISTORY AND APPLICATION STATUS OF CHINA'S MANNED
SPACECRAFT DOCKING MECHANISM

Abstract

Abstract: The rendezvous docking technology was the key mission in the second phase of China's manned spaceflight project, the docking mechanism was one of key technologies. The development history of the dock mechanism of China's ShenZhou spaceship and TianGong target spacecraft was introduced in this paper, including the investigation things, the research things, the design things, the test things and so on. In ShenZhou-8, ShenZhou-9 flight missions, China's docking mechanism performed perfectly. Combined the flight conditions, the current and future application status of China's docking mechanism were discussed.