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STUDY ON FAULT DIAGNOSIS TECHNOLOGY OF MANNED LAUNCH VEHICLE IN WAITING-FOR-LIFT-OFF PHASE

Abstract

It is accident-prone in the waiting-for-lift-off phase for manned launch vehicle. To effectively guarantee the safety of the astronauts, four failure modes can be diagnosed via software based on established judgment guidelines which aimed at these four failure modes. This technology provides an effective way to escape from the adversity for space astronauts, minimizes losses caused by failure and guarantees the success of the launch of the manned vehicle.