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论文

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### 载人航天器显示仪表展望

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#### A PROSPECT FOR INSTRUMENTS OF MANNED SPACE FLIGHT VEHICLES

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摘要

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**摘要** 根据90年代的先进技术展望载人航天器显示仪表的未来发展。在简单回顾现有航天器仪表之后,介绍90年代有代表性的先进的波音777飞机座舱仪表。接着讨论彩色液晶平板显示仪、大屏幕显示仪与玻璃座舱等90年代的先进技术,并提出由计算机统一管理的带自然语言输出的仪表,以发挥航天员听觉的作用和减轻航天员的视觉负担。

**关键词:** 载人航天器 显示装置 航天员

**Abstract:** A prospect for instruments of manned space flight vehicles is presented. After reviewing the instruments of existing manned space flight vehicles, the advanced flight deck of Boeing 777 is introduced. Then, the state-of-the-art of the 1990's is discussed such as: color flat-panel liquid crystal display, large screen display, touch sensitive screen, glass cockpit, etc.. The instrument with natural language output controlled by the computer is presented in order to reduce the pilot's vision workload; thus both the visual and the hearing senses of the pilot can be brought into full play.

**Keywords:** manned spacecraft display devices pilots

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