



航空学报 » 1995, Vol. 16 » Issue (S1) : 1-8 DOI:

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### 可靠性系统工程——理论与实践

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### RELIABILITY SYSTEM ENGINEERING——THEORY AND PRACTICE

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摘要

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摘要 阐述了当代世界经济和技术发展的大趋势与各国对此采取的对策, 并着重论述了在中国建立的可靠性系统工程的理论与实践。实践证明, 在现代采用先进技术的复杂工程系统中实施可靠性系统工程不仅是可行的, 而且会带来显著的效益: 即提高的产品使用效能和降低寿命周期费用。最后论述了可靠性系统工程、可信性技术、并行工程和全面质量管理之间的关系。

关键词: 可靠性系统工程 可靠性 可靠性工程 系统工程

Abstract: The general trend of the economic and technological development in the world of today and the counter-measures taken by some countries are discussed in this paper. It focuses on the theory and practice of reliability system engineering (RES) created by China. It is proved by practice that in modern complex engineering systems adopting advanced technology, the implementation of RES is not only feasible but brings remarkable results: increasing the effectiveness of product and reducing the life cycle cost. The article finally discusses the relationship between RSE, dependability, concurrent engineering and total quality control.

Keywords: reliability system engineering reliability reliability engineering system engineering

Received 1995-03-20; published 1995-11-25

引用本文:

杨为民;阮镰;屠庆慈. 可靠性系统工程——理论与实践[J]. 航空学报, 1995, 16(S1): 1-8.

Yang Weimin; Ruan Lian; Tu Qingci. RELIABILITY SYSTEM ENGINEERING——THEORY AND PRACTICE[J]. Acta Aeronautica et Astronautica Sinica, 1995, 16(S1): 1-8.

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