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发展我国航空复合材料应用的途径

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APPROACHES TO DEVELOPMENT OF COMPOSITE MATERIALS FOR AVIATION INDUSTRY IN CHINA

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摘要

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摘要 随着复合材料在航空、航天界使用历史的延续,它的优越性日益为人们所认识。复合材料比强度、比刚度高,耐疲劳性能好,具有可设计性,可以整体成形,从而可以减轻飞机重量,节省燃油消耗,提高飞机性能,延长飞机寿命,减少制造工时,降低维修费用。这不仅给航空界带来技术效益,也带来了经济效益,使复合材料在航空上的应用具有很大潜力。预期到九十年代,复合材料在军用飞机上的用量将占飞机结构重量的40~50%,在民用机和直升机上的用量将分别占60%和80%。

关键词:

Abstract: The state-of-art of composite materials in China is reviewed. Emphasis is put on the technical problems to be studied preferentially for exploitation of composite materials in aviation industry, for example, the seriation of intermediate materials production, the familiarization of fabrication techniques, the rationalization and optimization of composite design, and the establishment of quality assurance system. Principal tasks to be done in these fields and guidelines and directions to be followed are discussed somewhat in detail. In addition, theoretical topics related closely to the solution of practical problems are suggested and attention is called to exploring research works on metal matrix composites. It is expected that the development of composite materials in China will be accelerated by way of proper use of successful foreign experience.

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