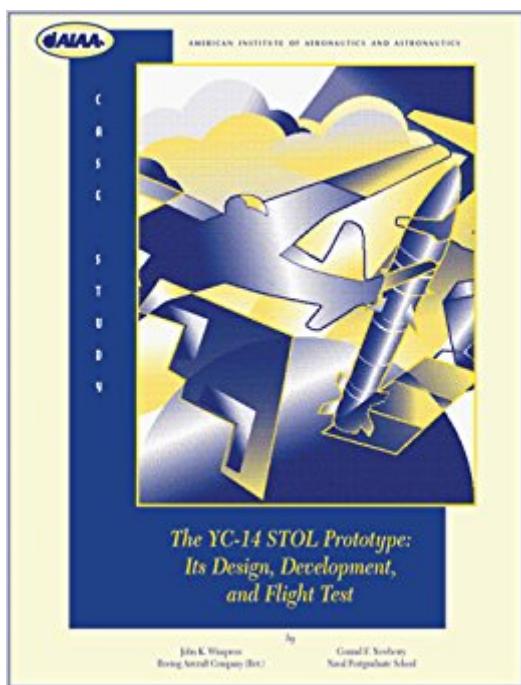


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The YC-14 STOL Prototype: Its Design, Development, And Flight Test (AIAA Education)



Synopsis

The YC-14 was an experimental aircraft, developed between 1971 and 1977, by the Boeing Company and sponsored by the US Air Force. Its basic mission was to carry large, bulky payloads into and out of short, rough dirt fields 2,000 ft long, even if an engine failed. Designed to replace the C-130, it had considerably more capability, with a large fuselage meant to carry the largest tanks, trucks and vans in use. The YC-14 configuration had a high wing and large T-tail, with the flow from the 50,000lbs thrust turbofan engines exhausted over the top of the wing and passing over the upper surface of the flaps. The flow was turned by the flaps and deflected to augment the aerodynamic lift of the configuration. It was the most efficient powered-lift system ever developed. This case study takes the reader step by step through the request for proposal process, the trade study and configuration development, detailed design and construction, and ground and flight tests. The effects of politics, management and personalities on the project are also addressed.

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Really an amazing first person account of an aircraft from the Project Engineer on the YC-14. This was a jet I saw sitting on the ramp while driving to the Univ. of Washington and wanting to be an engineer. What an amazing aircraft. Outstanding first person account!!!

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