



Why is Aeroplane Design a Difficult and Risky Business?

by **Prof. Andras Sobester (University of Southampton, UK)**

クルマが空を飛ぶ時代、なぜ飛行機は進化しないのか？
物理的、数学的、社会的、経済的観点からその理由を探ります。

Abstract:

At the dawn of the jet age, when the Boeing 707 first made long-distance, high-speed air travel possible, the consensus amongst those trying to predict the future was that, by the year 2000, we would be flying in giant, glass airliners, many times faster than sound, playing golf or perhaps relaxing in a tropical garden as we cross continents and oceans. And yet, not only did this not happen by the turn of the millennium, but, from a passenger's perspective, the aircraft of the 2020s still look rather like the early jets from the 1950s. So, what went wrong? We explore the physical, mathematical, societal, and economic reasons why designing an all-new airliner is very hard, very expensive, very risky, and typically requires the hard work of over ten thousand engineers.

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