



ANALYSING DESIGN

Using your key specifications as its starting point – aerodynamics, component positions, weights and so on – J2 Builder quickly constructs a reliable aircraft model ready for assessment. Tolerances and many other variables can be applied to the same data model for further investigations.

In short, this unique and easy-to-use interface enables users to construct sophisticated aircraft data models rapidly and efficiently, no matter whether the model itself is simple or highly complex.

KEY FEATURES AND BENEFITS

1. Familiar Framework for Data Entry and Storage

- Enables you to build simple or detailed models faster than ever before

2. Integration with Existing Tools

- J2 Builder has advanced import/export capabilities

3. User Defined Structure

- Creates aircraft models that match your design and data

4. Models Constructed from any Data

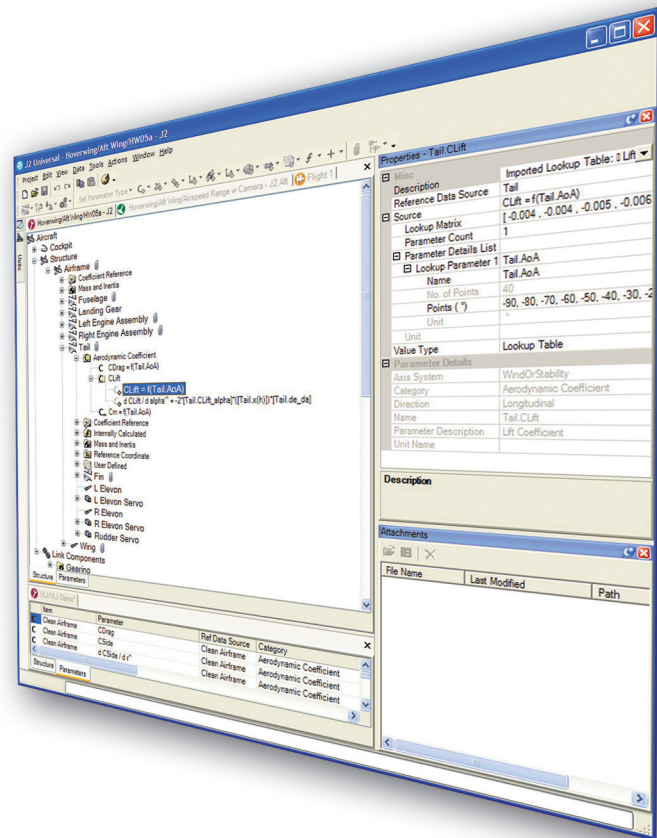
- You can access designs as early as possible

5. Model Constructed from Individual Components

- Designers can change configurations simply by modifying a single component

6. Generic Parameter Definition

- Use look-up tables or simply enter equations



J2 BUILDER DELIVERS

Features

Advantages and Benefits

Intuitive Graphical User Interface

The aircraft model is displayed as a user-defined logical hierarchy. This makes it easy to visualise aircraft and components with equipment connected to a relevant structural item. Users can create and update models without resorting to lengthy text files

User Defined Structure

Aircraft data models can be built to match the aircraft systems and structures. Data models can evolve with the design and there's no need to stick with convention – you can assess any aircraft and investigate all possibilities. Accurate simulations can be performed and potential design flaws can be eliminated

User Defined Pilot Controls

Create pilot inputs as direct replications of the cockpit controls

User Defined Links

These enable users to mix pilot controls to control surfaces or 'daisy chain' links to create complex systems. Control surfaces can be scheduled to create flatspots or dead bands

Fully Generic User Definition of Parameters

Easy to create look-up tables enable data to be copied straight from spreadsheets or other sources. When look-up tables become limiting, the equation editor can construct data. Equations allow for time- or state-dependant characteristics to be modelled.

Linear/Non Linear Models

Analysis ranges from simple coefficient derivatives to full wind tunnel non-linear coefficient information. Linear data models can cover many flight conditions to show variation across the envelope

Attach Data Files

By attaching original data sources, CAD drawings or other data files to the hierarchy, you have an instant reference from the model to the data, with files automatically tracked in the configuration control



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