Barron Bichon

Probabilistic Mechanics

Southwest Research Institute

Independent nonprofit research lab based in San Antonio, TX
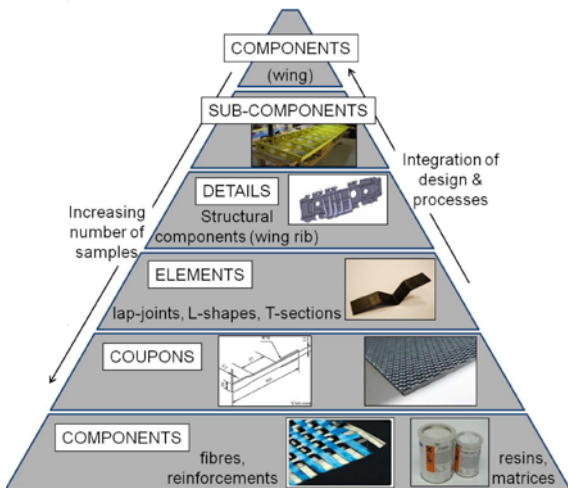

Recent Focus

> Combining data science approaches with physics-based models to enhance and quantify predictive capability, then design experiments to best improve predictive accuracy

Example Application

> Creating a model and uncertainty-based approach to the rapid qualification of new manufacturing processes

From "build & break" to a model hierarchy

Reduce testing
Save time & money

How much could the uncertainty *here* be reduced if we could reduce the uncertainty *here*?

Gonzalez-Murillo & Price, 14th Intl ESAFORM Conf on Matl Forming