Nonlinear Analysis 1980 – 2020

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Rolls-Royce was introduced to Dyna3d and Supercomputing in 1981.The first application was to understand the physics behind Birdstrike in order to solve a particular design problem on the Wide Chord Fan Blade.

Since then we have followed and supported developments in the Dyna codes. Simultaneous advances in High Performance Computing have extended the fidelity and scope of our analysis capability.

The presentation describes where we have come from, the present situation and the challenges we are meeting going forward.