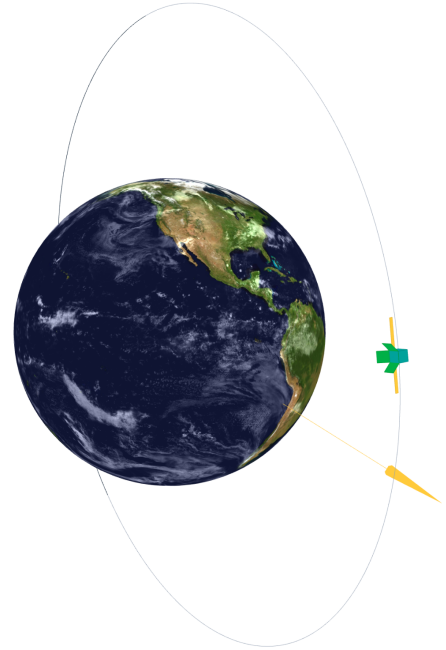


An Introduction

Radian is born with the sole purpose of accelerating space engineering.

We build simulation software that is faster and more affordable, freeing engineers from non-engineering tasks, bringing intelligence to thermal analysis, and supporting decision-making.

Our software is based in the cloud, enabling thermal analyses from a web browser. It comes with ready-to-use parts, materials, and surface treatments.



Technical Specifications

Orbital Environment

- NASA-grade ephemerides model
- Solar-System planets and Moon
- Multibody eclipse detection, with penumbra
- Orientation from attitude models, or files

Heat Transfer

- Models based on lumped-parameter networks
- Steady-state and transient solutions
- Radiative couplings computed via Monte Carlo Ray Tracing, with self-shadowing effects
- Edge and area contact detection for conductive couplings
- Thermostatic heat loads, with multiple trigger methods

