

K-Load



KARAX

OVERVIEW

K-Load is a modular, constitutive modeling platform that allows for predictions in changes to mechanical behavior due to singular or various damage sources. Service conditions for a given application can be defined by specifying, for example, the amount of thermo-oxidative, radiative or hydrolytic aging. K-Load has been validated for environmental, thermal, radiative and mechanical damage.



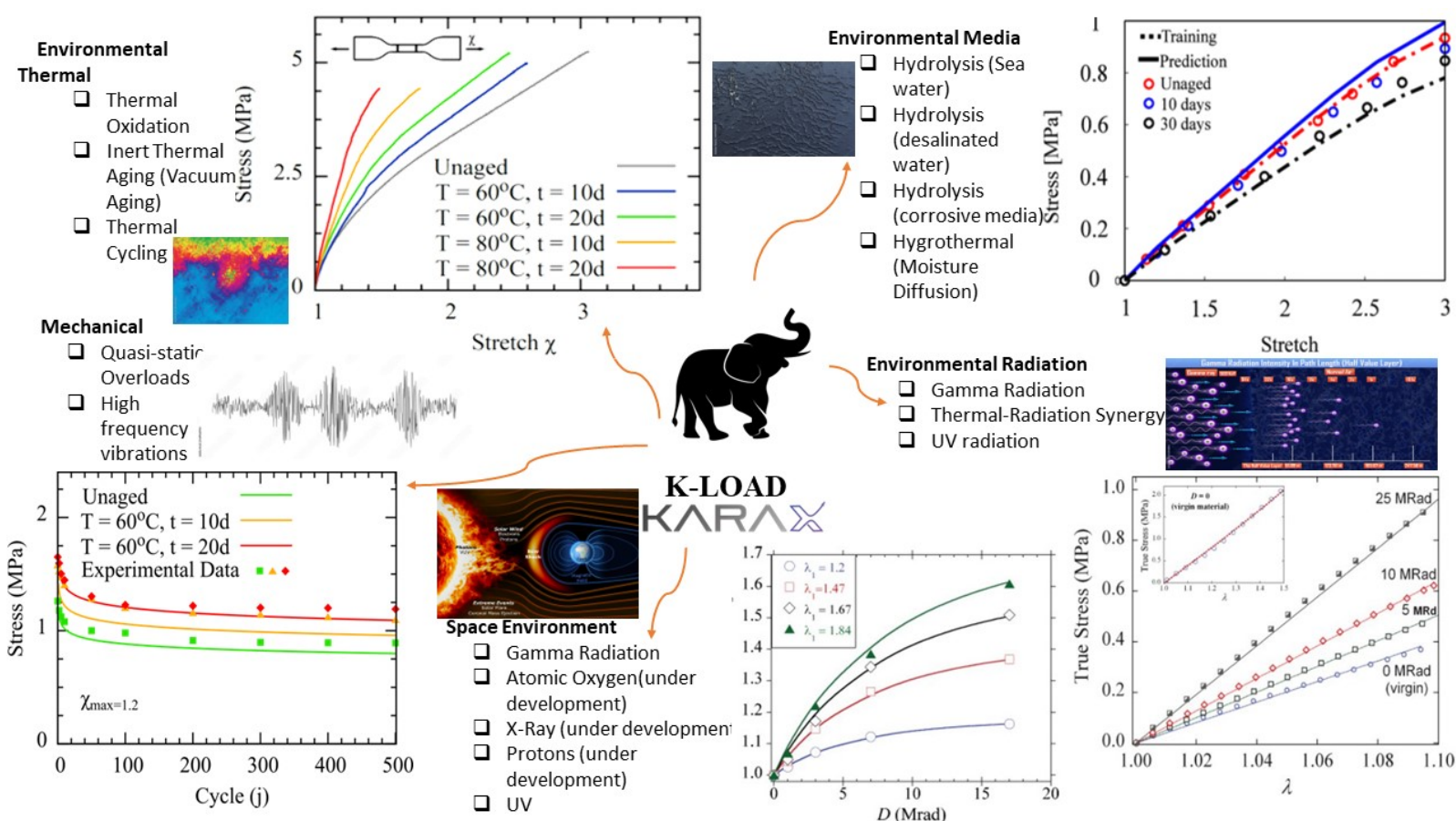
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BUSINESS VALUE

Reduce maintenance costs: leverage K-Load predictions to reduce maintenance frequency for polymeric components

Improve engineering design: improve reliability of damage tolerant engineering design for you given application

Accelerate time to market: accelerate design process by integrating K-Suite materials predictions with structural analyses

CAPABILITIES

Thermal: thermal oxidation, inert thermal aging, thermal cycling

Environmental: hydrolysis, hydrothermal (moisture diffusion)

Mechanical: chain rupture

Radiative: gamma, UV