

AFGROW Standard Training Syllabus

Day 1:

AFGROW Basic Assumptions/Limitations (covered with the Day 1 option)

AFGROW GUI Layout and Flow (covered with the Day 1 option)

Main Modules

- Spectrum

 - Terminology

 - Spectrum Format

 - Spectrum Management Tool

- Stress Intensity/Beta Factors (Geometry)

 - Classic Cases (User Defined, Application Defined, Weight Functions)

 - Beta Correction

 - Beta Modification (K-Solution Filters)

- Crack Growth Rate Models

 - Review of Available Models in AFGROW

 - Example Using Tabular Rate Data (Class Participation)

Day 2:

Main Modules, Continued

- Stress State and Failure Criteria

- Retardation Models

- Residual Stresses

Preferences

Units

I/O Files

Examples (Class Participation)

Additional Capabilities

- Advanced Models

- Crack Initiation

Day 3:

AFGROW Tips and Tricks

 - Using superposition to model complex geometries

 - Getting more out of the Advanced Modeling Capability

 - Using AFGROW to generate crack growth reports

Continuing Damage Modelling

AFGROW COM Automation

- COM Examples (Class Participation)

- Plug-Ins

- Fracture Mechanics Database

Closing Statements / Q&A Session