

# CHEFEM 3 SOFTWARE

## LEADING DESIGN TOOL FOR CHEMICAL EXPOSURE ANALYSIS

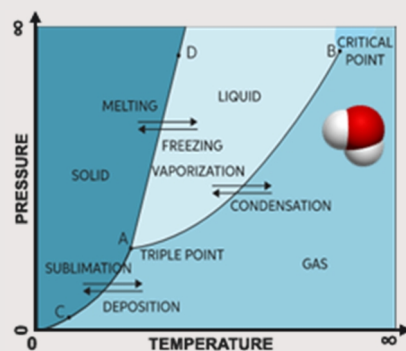
The CheFEM App is a leading design tool used for the virtual analysis of chemical exposure effects on polymers and their composites. Its core code utilizes the calibrated Sanchez-Lacombe Equation of States and Finite Element Methodology (FEM). CheFEM can operate as a standalone application or seamlessly integrate as a 'chemical exposure plug-in' with other widely-used mechanically-oriented FEM packages, such as Abaqus, Ansys and SolidWorks.

### CHEFEM OUTPUT

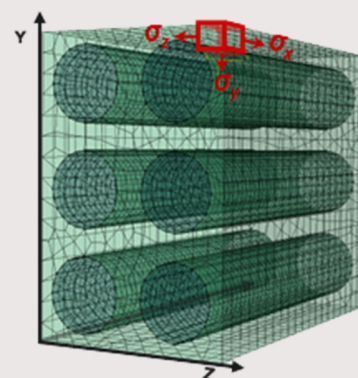
- Chemical/Mixture Permeability
- Exposed Stiffness & Strength
- Diffusion + Chemical-Reaction Module
- (Vented) Annulus Condition
- FEM Loads & Constraints
- Chemical-Thermal Spiking
- Rapid Gas Decompression Analysis
- Fugitive Emission Module

### SYSTEM ATTRIBUTES

- Built-in Calibrated EOS (SL, GIM, Redlich-Kwong)
- Built-in 8-node FEM Mesher
- Abaqus API, Ansys API, Excel API, etc.
- Matrix Mechanical Data Automation
- Modern App - No Local Installations
- Automatic Weekly Code Updates



**CALIBRATED CHEMICAL & MATRIX EQUATION OF STATES**



**8-NODE FINITE ELEMENT METHODOLOGY**



**APPLIED PERMEABILITY & MECHANICAL RESPONSE**



USERS INCLUDE:

