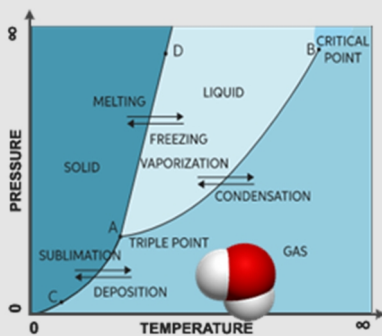
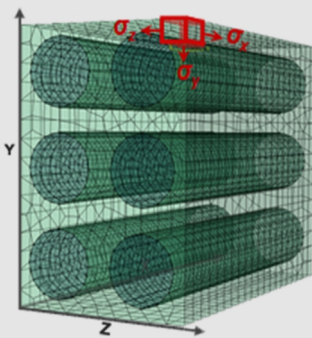


CHEMICAL EXPOSURE ANALYSIS OF POLYMERS, COMPOSITES & HYBRIDS

CHEFEM 3 SOFTWARE INTEGRATES LATTICE CHEMICAL-POLYMER THERMODYNAMICS WITH CUBIC FEM METHODOLOGY TO QUANTIFY ENVIRONMENTAL EFFECTS ON POLYMERS AND THEIR COMPOSITES. CHEFEM 3 APP CAN BE USED AS A STAND-ALONE TOOL AND AS A "CHEMICAL EXPOSURE" PLUG-IN TO OTHER PACKAGES, LIKE EXCEL, ABAQUS AND ANSYS.



LATTICE EQUATION OF STATES,
INCL. SANCHEZ-LACOMBE



8-NODE FINITE ELEMENT
GRID OF APPLICATION



APPLIED PERMEABILITY &
MECHANICAL RESPONSE

OUTPUT FEATURES

- Chemical/Mixture Permeation
- Exposed Stiffness & Strength
- (Vented) Annulus Condition
- FEM Loads & Constraints
- Chemical-Thermal Spiking
- Rapid Gas Decompression Analysis
- Chemically Driven Failure Modes
- Fugitive Emission Module

ANALYSIS INCLUDES
GAS \rightleftharpoons LIQUID \rightleftharpoons SOLID
PHASE TRANSITIONS

APP SYSTEM FEATURES

- Build-in Calibrated Equation of States & 8-node FEM Grid
- Excel API, Abaqus API, Ansys API, etc.
- Matrix Mechanical Data Automation
- Advantageous Annual License Plan
- In use by Industry Leaders
- Data secured by TLS & AES

COMPLEX SPIKING
ANALYSIS MADE EASY



USE CHEFEM STAND-ALONE OR AS A PLUG-IN TO YOUR
MECHANICALLY ORIENTED FEM SOFTWARE PACKAGES

