MIT SEAWATER LIBRARY VERSION HISTORY

Version 3.1.5 2024-08-07
- Revise MATLAB internal energy function to pass non-standard units to density and enthalpy functions when computing internal energy

Version 3.1.4 2017-02-20
- All functions in EES updated to include units so users are aware of unit errors when using the seawater library (MATLAB and VBA same as v3.1.3)

Version 3.1.3 2016-12-21
- Kinematic viscosity function was updated so internal density function call used pressure input in MPa instead of Pa for T > 100 °C

Version 3.1.2 2016-07-08
- Extended range of flow exergy function to S = 0 g/kg and updated description
- New function for product of salinity and chemical potential of salt

Version 3.1.1 2016-07-07
- Updated documentation of functions, range of chemical potential of water function and surface tension, osmotic coefficient and references to Nayar et al. (2016).

Version 3.1 2016-03-03
- First public release version of revised package
- New function for osmotic pressure (calculated from osmotic coefficient) and pressure dependent thermal conductivity

Version 3.0 2015-07-22
- Beta version
- Incorporated pressure dependence for density, specific heat capacity, enthalpy, entropy, Gibbs, chemical potential of salt and water in seawater, internal energy and specific volume
- New correlations for isothermal compressibility, isobaric expansivity, Gibbs energy, chemical potential of salt and water in seawater, osmotic coefficient and surface tension

Version 2.0 2012-06-06
- Allowed T and S arrays to be manipulated and unit conversion

Version 1.0 2009-12-18
- Original library dependent on temperature and salinity only