TYPE 711: BURIED HORIZONTAL PIPE WRAPPER

General Description

This component can be used in conjunction with most pipe models to calculate the energy exchange through the sides of a horizontally oriented pipe that is entirely buried beneath the ground surface. As inputs, the model takes the U values of the pipe as well as the temperature of each axial pipe node. The user is also asked to define a 3 dimensional radial soil node structure. In return, Type701 computes the temperature of each pipe node / soil node boundary, passing those temperatures back to the pipe model for it's own loss calculations.

Nomenclature

Detailed Description

The detailed mathematical description of this component was not completed in time for the initial release of the TESS Libraries. Please contact your distributor to find out whether the full technical documentation is available. Alternatively, you can contact us directly at by emailing:

tessinc@tess-inc.com.