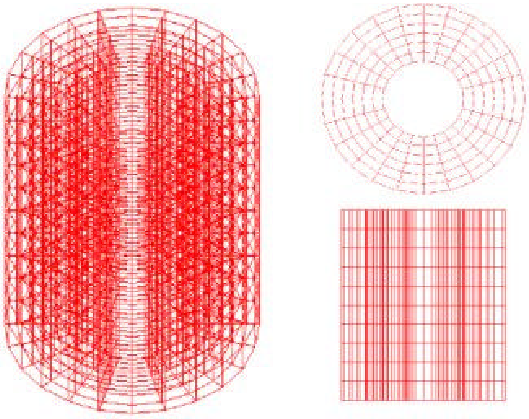
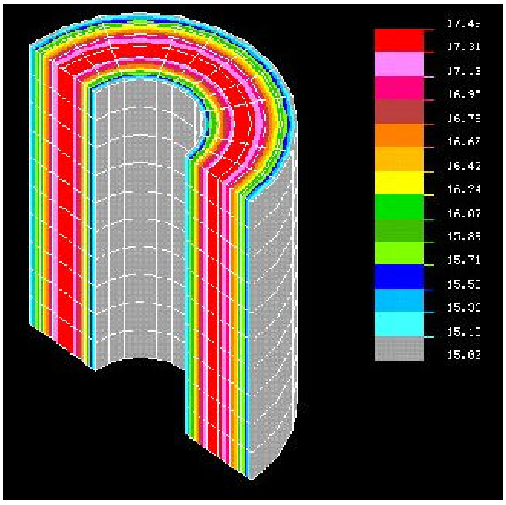
(Joint research with Hyogo pref. Forestry and Forest Products Research Institute)

# Simulation of Drying Process of Hollowed Log
## —Prediction of Distribution of Temperature and Drying Stress—

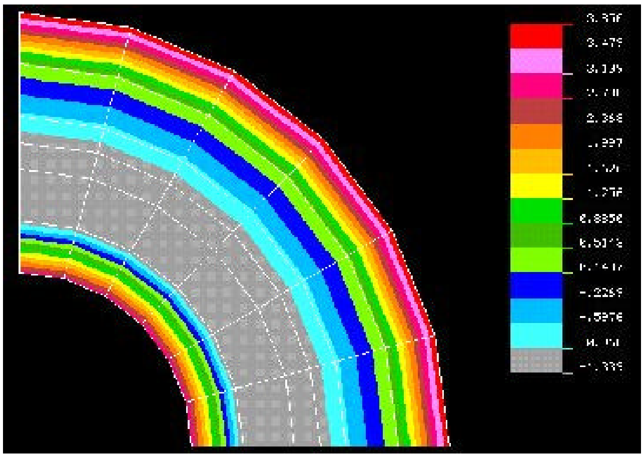
The thermal conduction and the thermal stress of hollowed log were analyzed using FE-Method and the distribution of temperature and stress during the hot-air drying are simulated. Anisotoropy of the coefficient of thermal conductivity and contraction and also the drying condition and the rate of hollow are discussed.



FEM model for the analysis of temperature distribution and thermal stress.



A result of simulated temperature distribution.
*Inside and outside of the Hollowed log were dried under the same condition.



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