

General notion of relative
volume of stem and its growth

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Abstract

We calculated a solid - a "fundamental body" - in which both the height and the diameter at distance of nine-tenth are equal to 1. Its volume is the relative volume which is independent from the height or the normal diameter $d_{0.9}$ and increases with the age to a certain extend then after reaching its maximum it decreases gradually. In our experiment we calculated the stem analyses of sample trees of two even aged stands of *Cryptomeria japonica* in order to make clear the progress of the relative volume.