2000

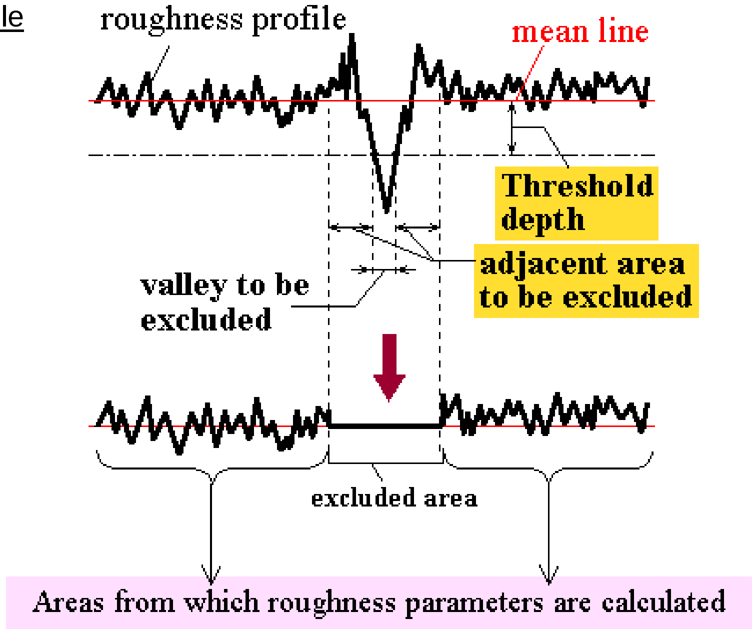
Effect of Erasure of Deep Valleys on Evaluation of Surface Roughness of Wood

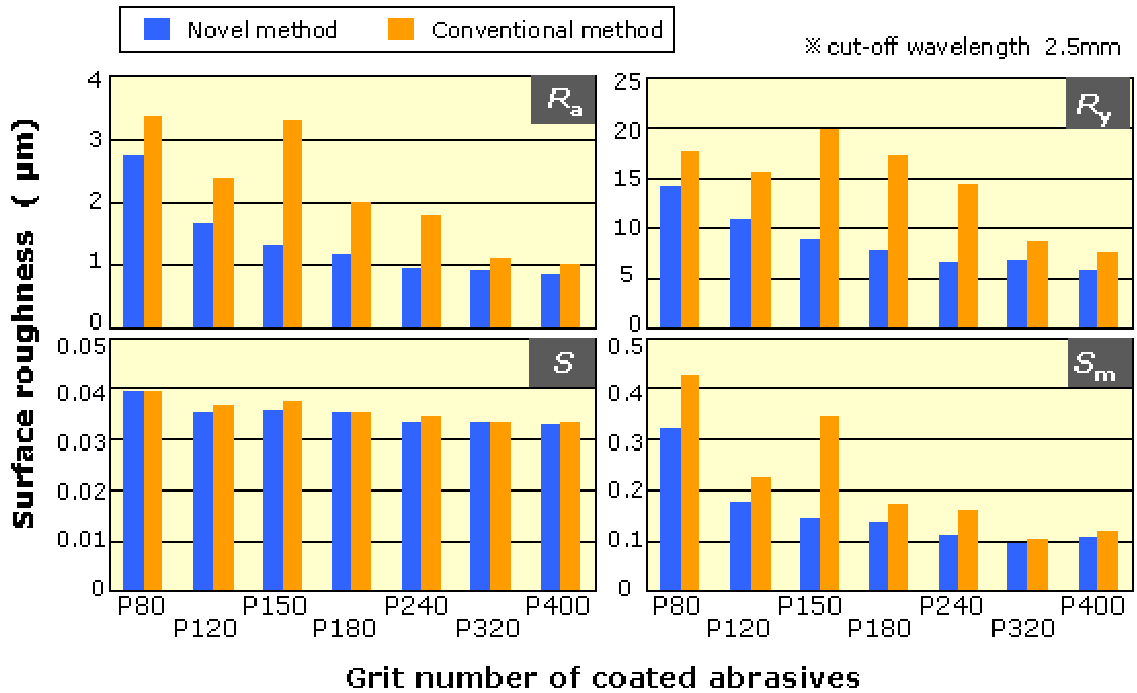
We proposed a new method of roughness evaluation of machined surface of hardwood regardless of its cellular structure, in which specified deep valleys were excluded from roughness profiles.

Erasure of deep valleys from roughness profile

Certain areas which contain a valley deeper than the threshold and their adjacent data in roughness profile were excluded from the calculation of roughness parameters and replaced by 0 (zero).

Roughness parameters were calculated from the area which is NOT excluded.





Relationship between surface roughness and grit number of coated abrasives

(specimen : Japanese oak)