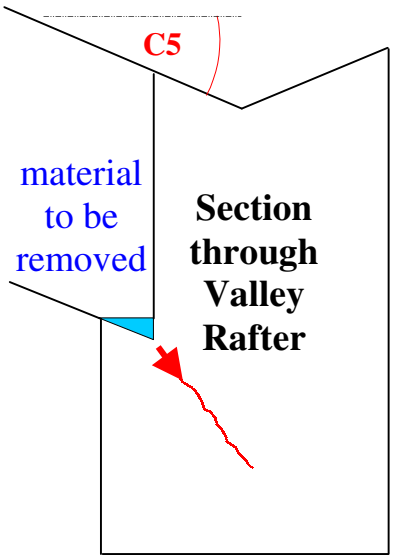
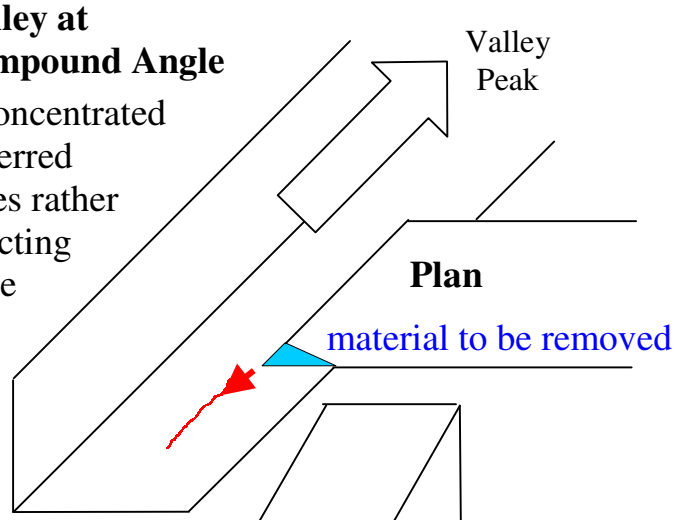
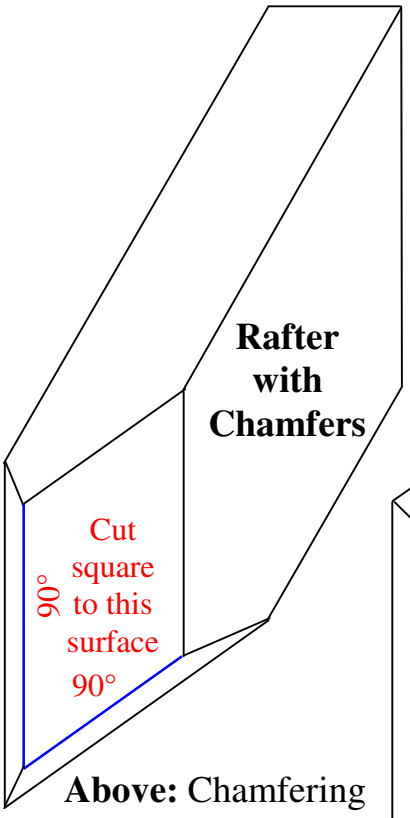
JACK RAFTER meets VALLEY



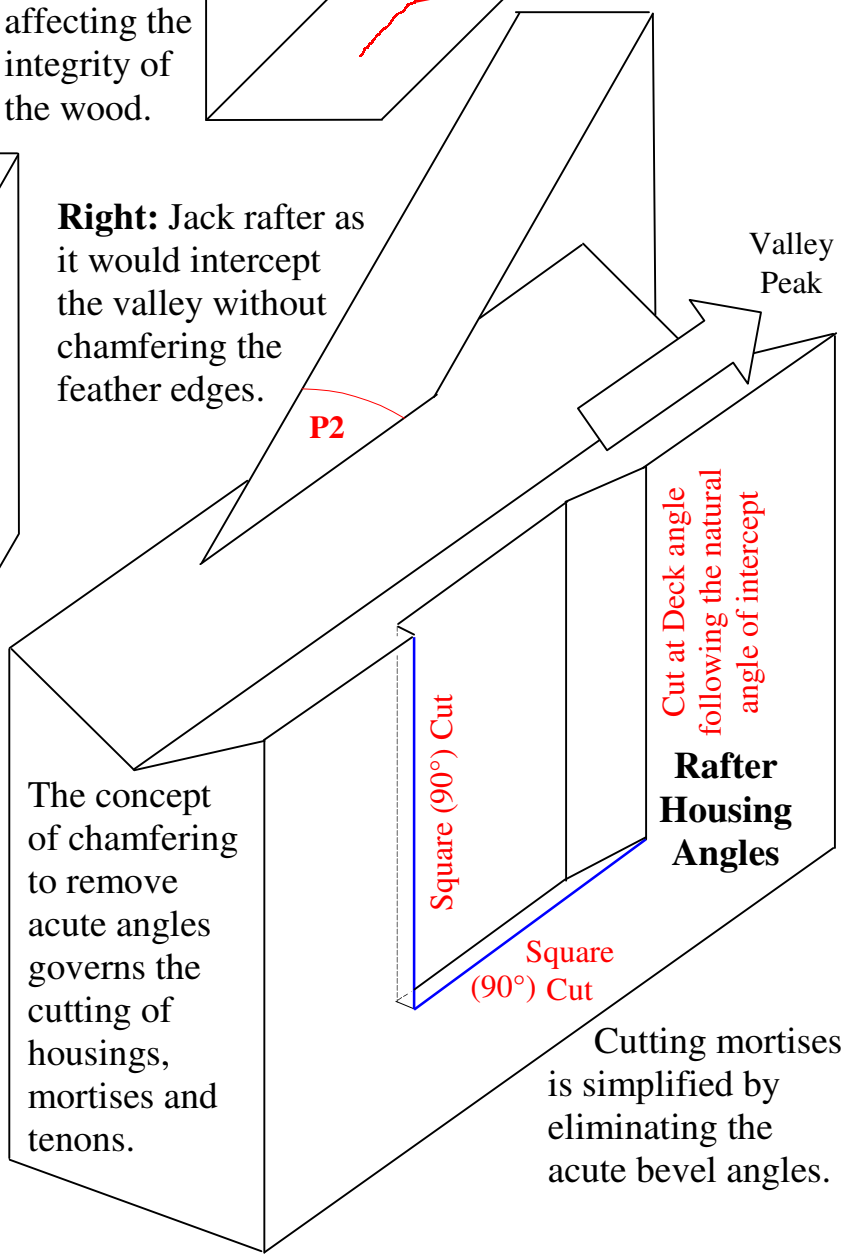
Jack Rafter intercepts Valley at Natural Compound Angle

Forces are concentrated at and transferred through edges rather than areas, acting parallel to the grain of the valley and affecting the integrity of the wood.





Right: Jack rafter as it would intercept the valley without chamfering the feather edges.



Above: Chamfering or square cutting provides a surface area to distribute forces from the jack rafter to the valley.

The concept of chamfering to remove acute angles governs the cutting of housings, mortises and tenons.

Cutting mortises is simplified by eliminating the acute bevel angles.