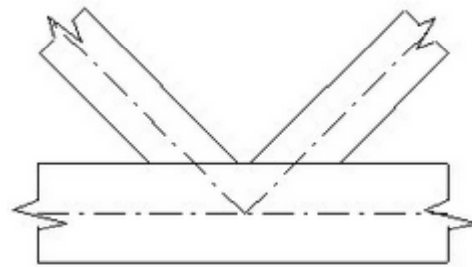


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Katedra za metalne konstrukcije*

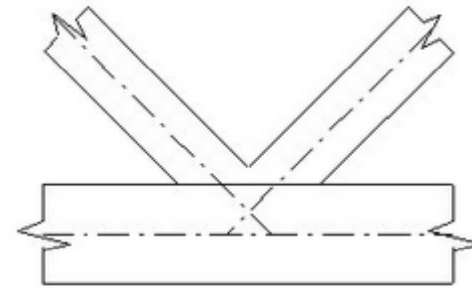
JEKLENE STAVBE IN MOSTOVI

PROSTORSKA PALIČJA

prof. dr. Darko Beg



Centre lines intersect



Center lines do not intersect

Figure 1 Coincidence of member axes

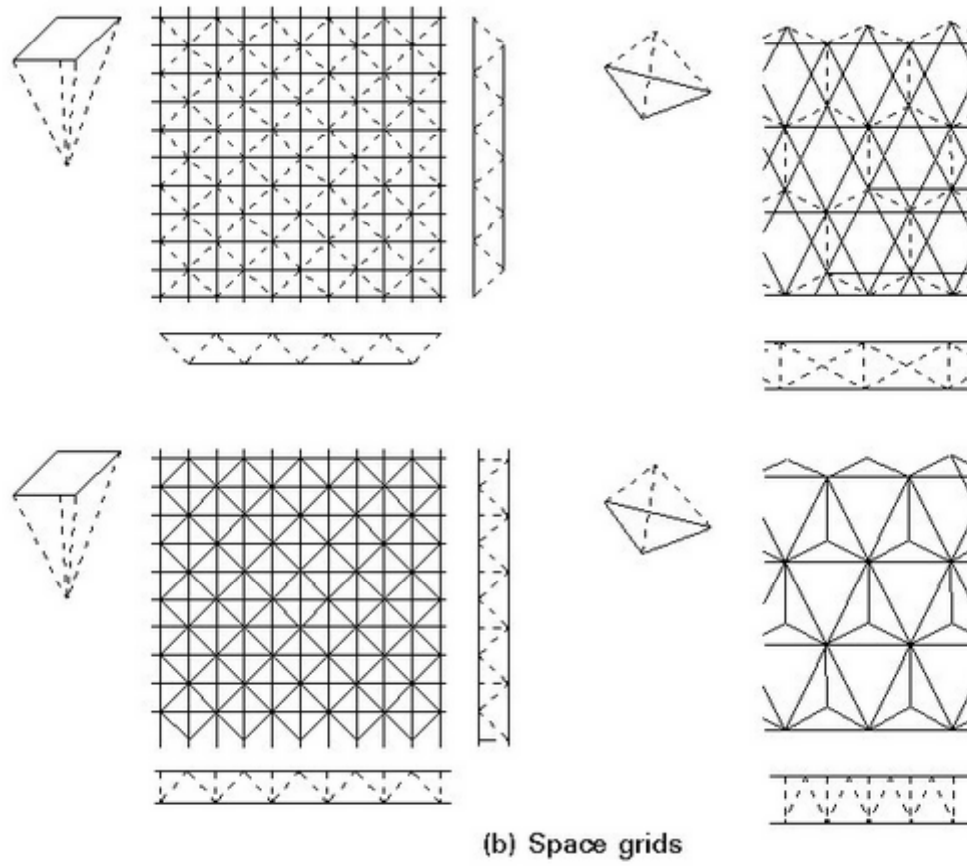
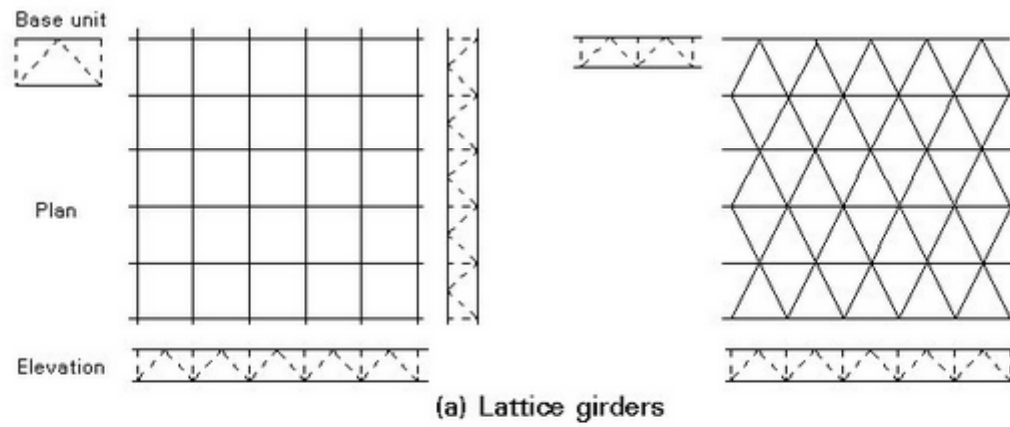


Figure 8 Double layer grid types



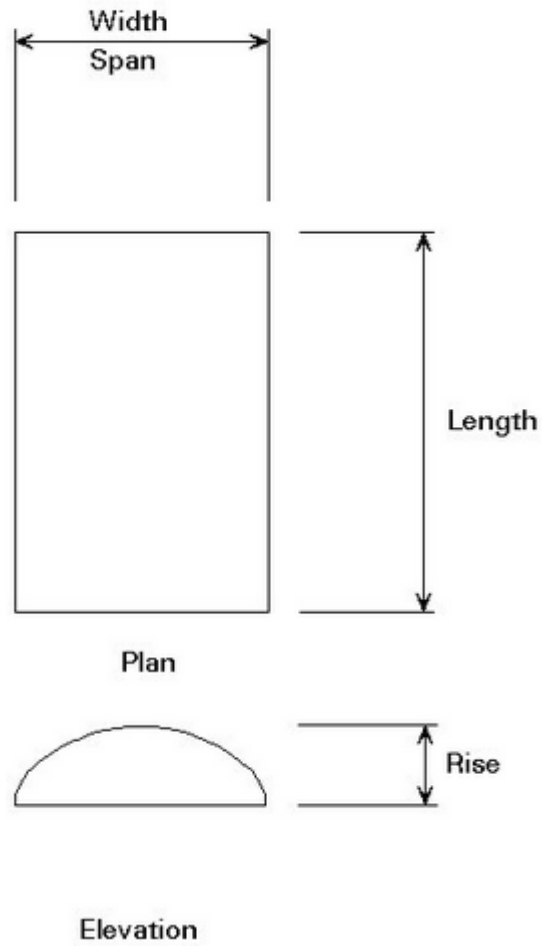


Figure 9 Cylindrical vault

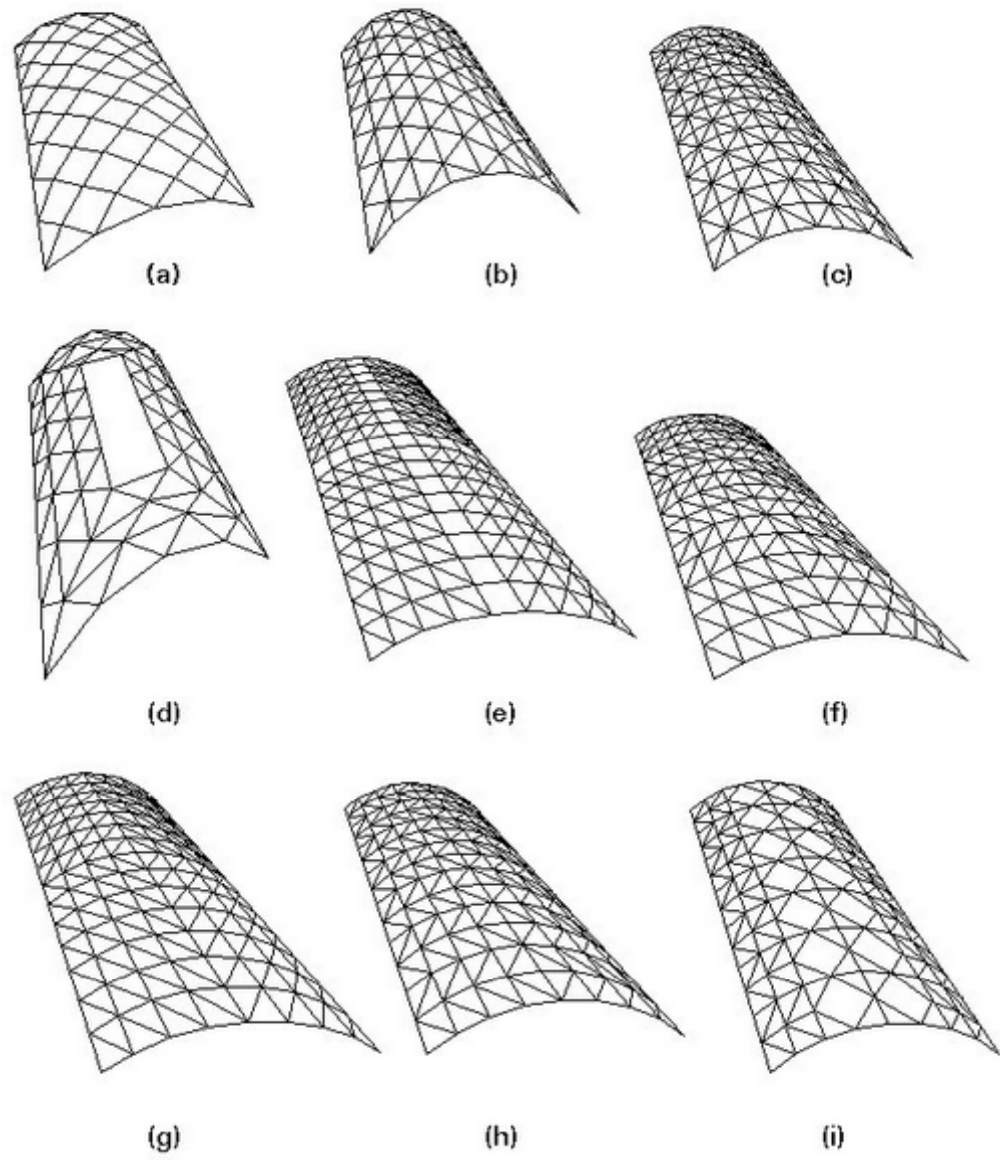
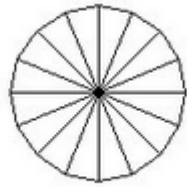
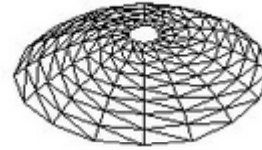
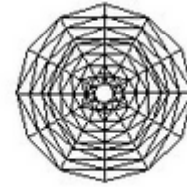


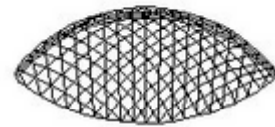
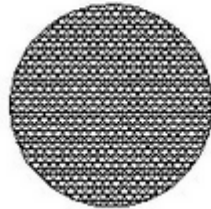
Figure 10 Cylindrical vault configurations



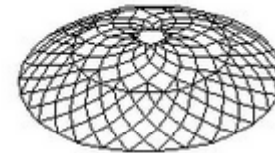
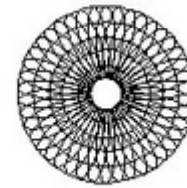
ribbed dome



Schwedler dome



Three-way grid dome



Lamella dome

Figure 11 Dome configurations

Unsymmetrical action

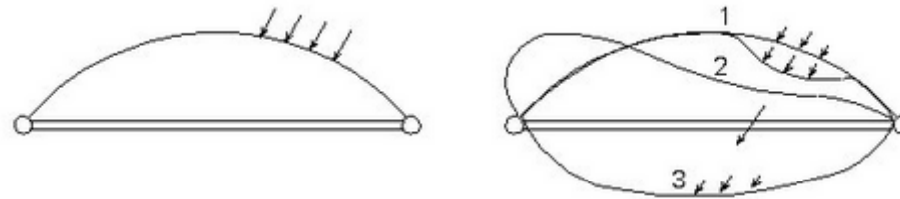
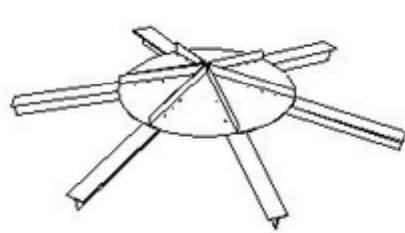
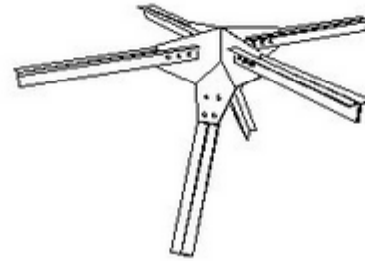


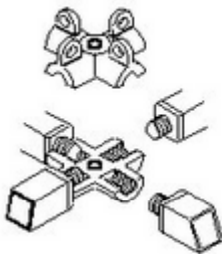
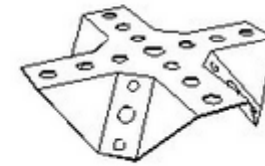
Figure 12 Snap through buckling for domes



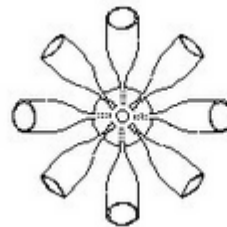
(a) Plate nodes



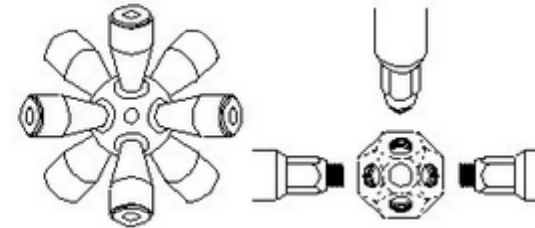
(b) Folded plate nodes



(c) Cast nodes



(d) Extruded aluminium



(e) Special working

Figure 26 Different types of nodes

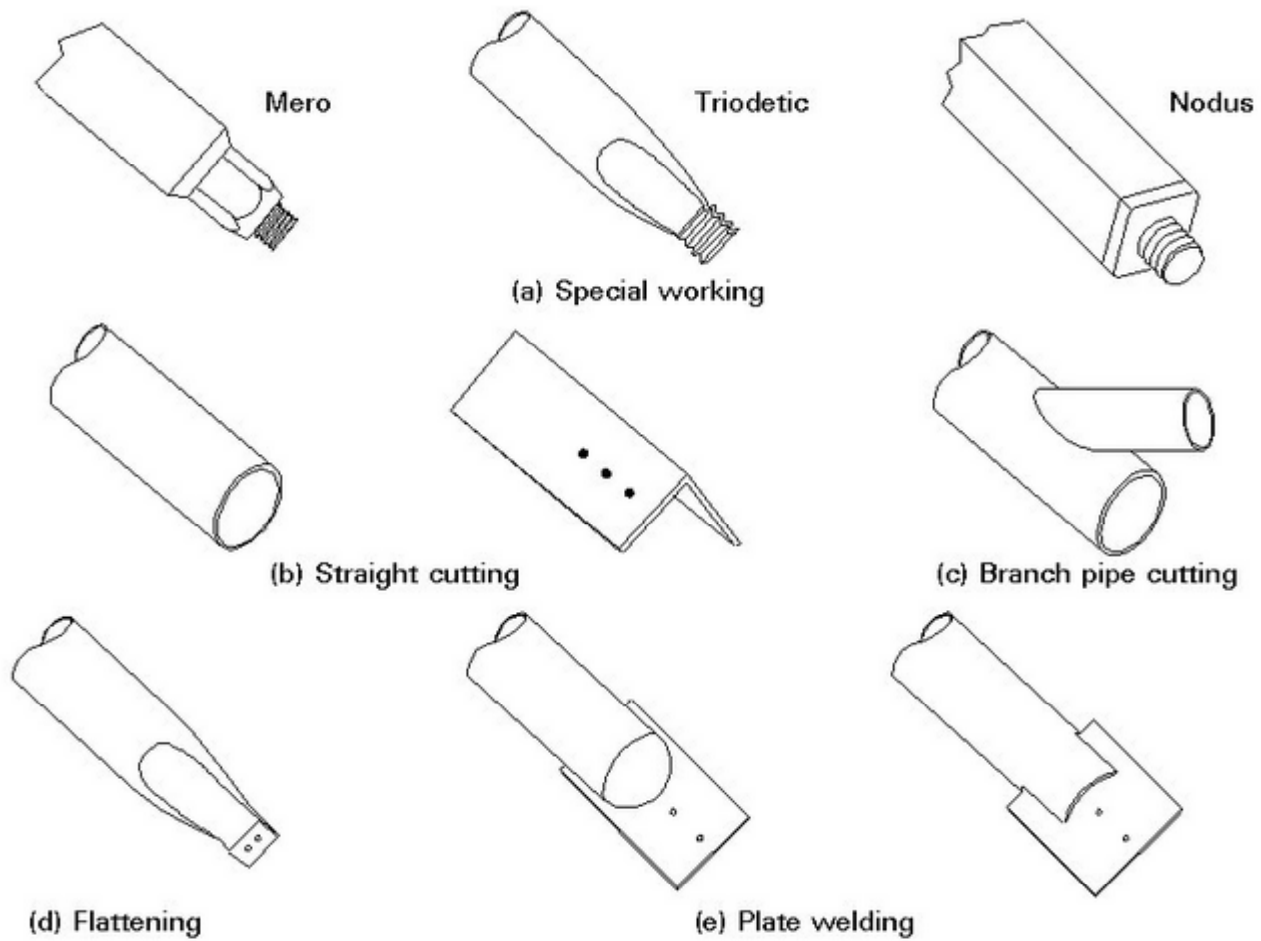
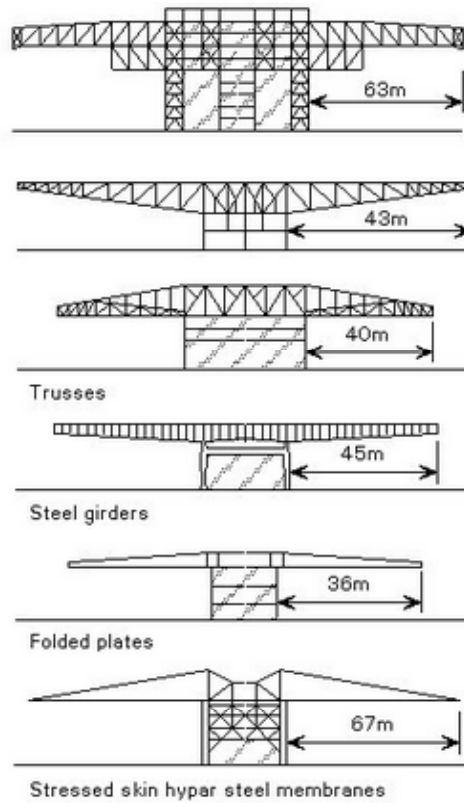
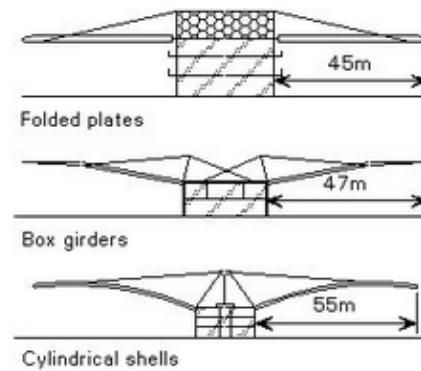


Figure 27 Different treatments of member ends



(a) Free cantilevers



(b) Cable supported cantilevers

Figure 23 Large span cantilever roof structures