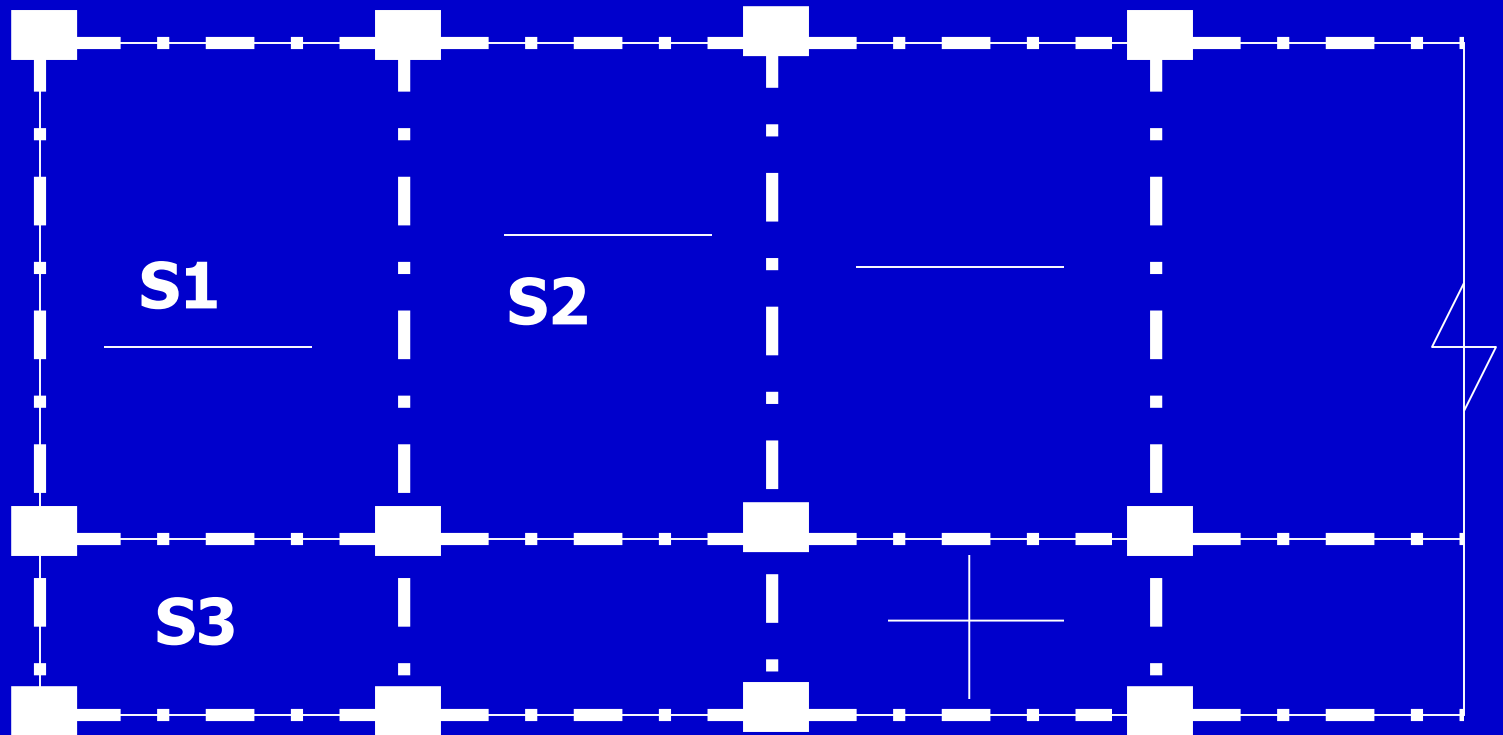


DESIGN OF FRAMED STRUCTURES

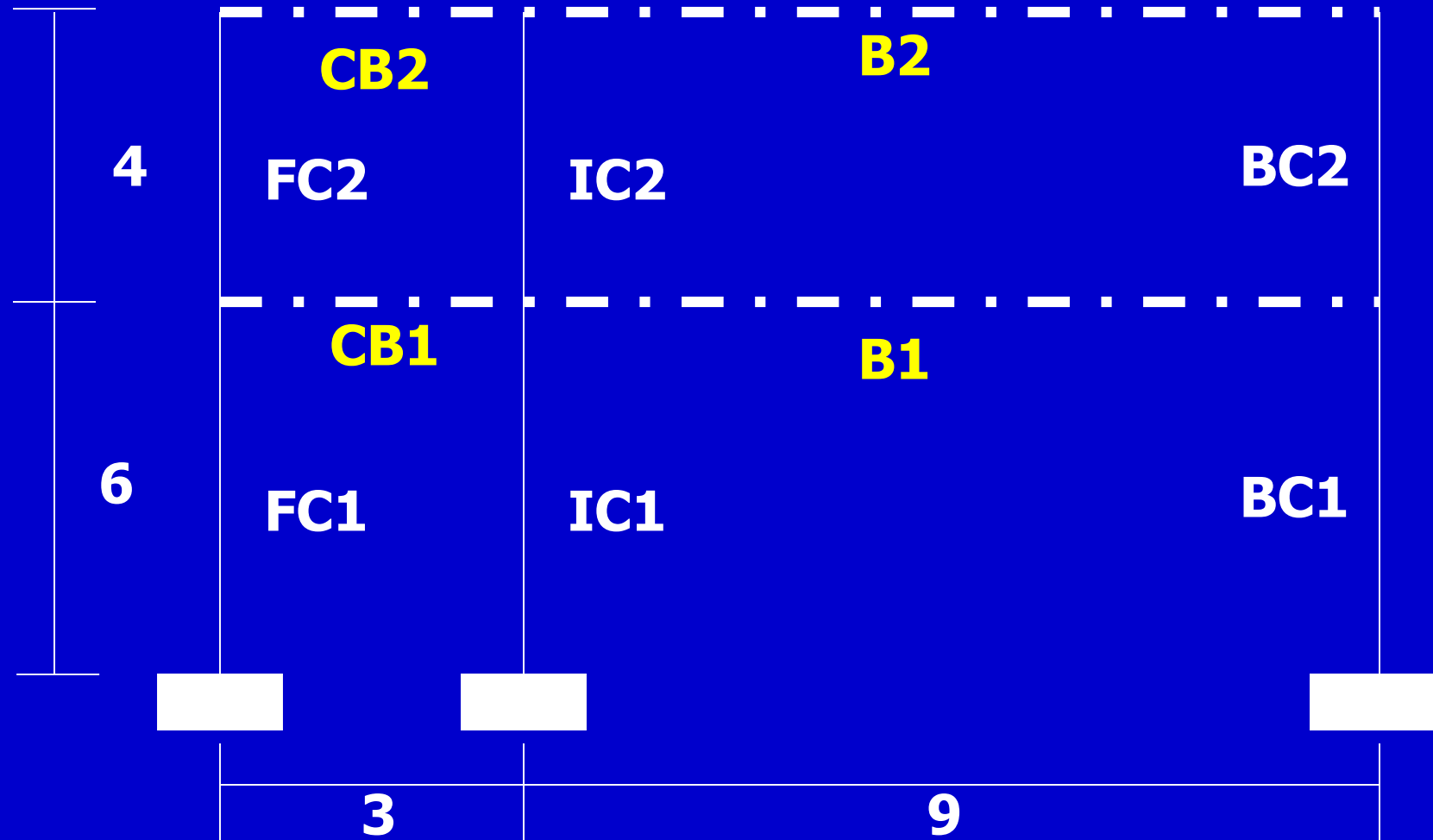
by

IRFAN-UL-HASSAN

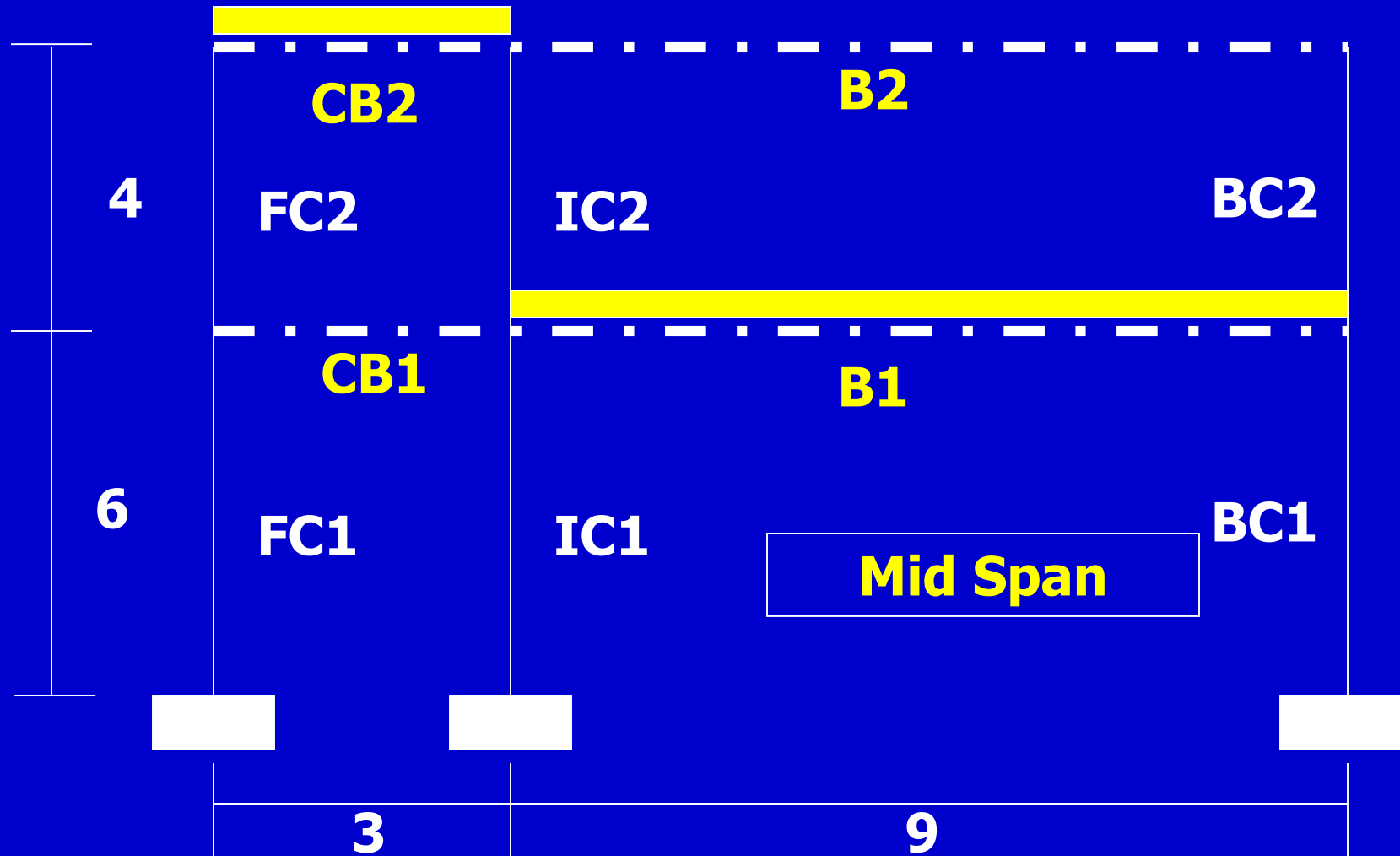
Academic Building



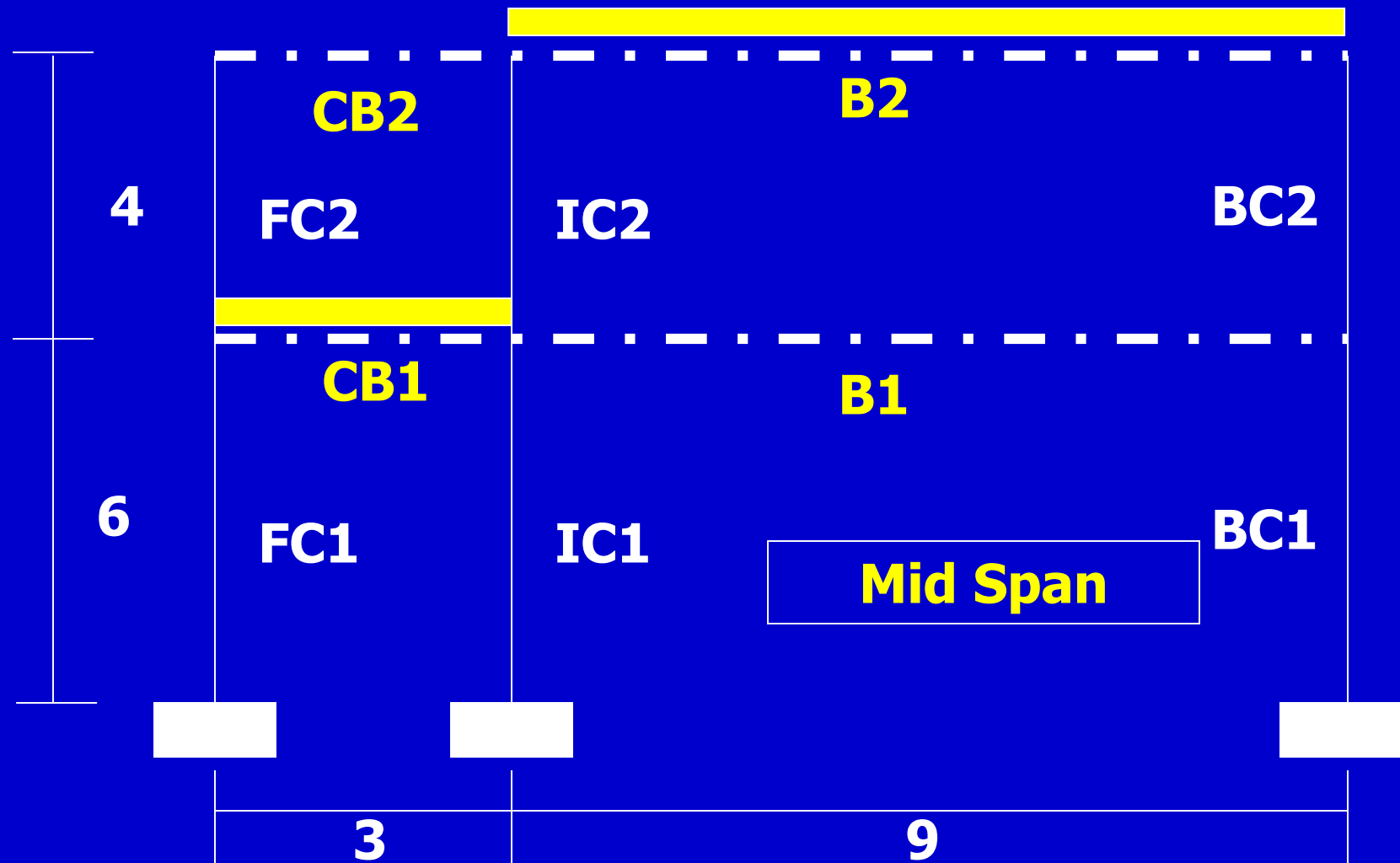
Analysis as 2D Plane Frames



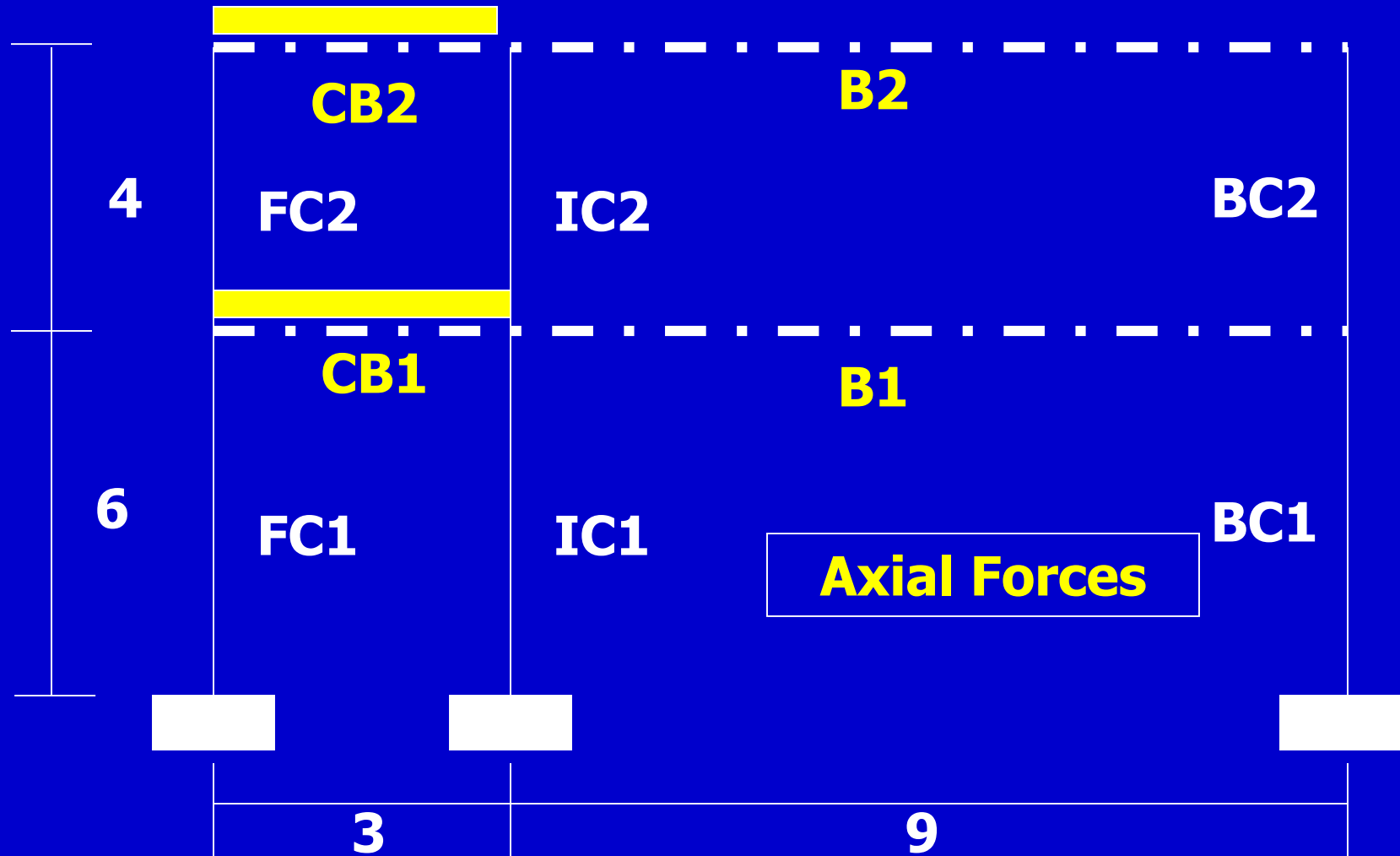
Critical Live Load Patterns (B1, CB2)



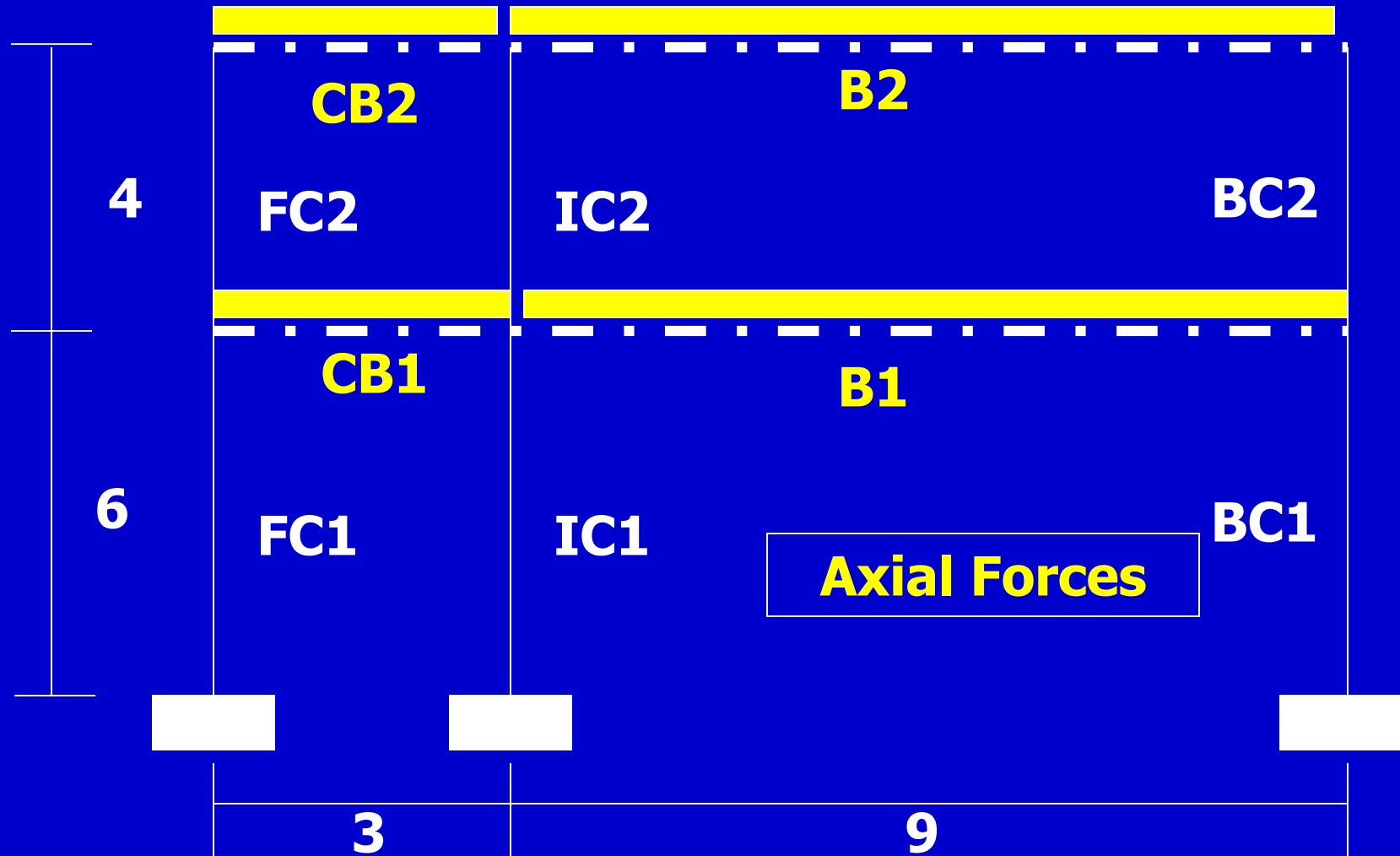
Critical Live Load Patterns (B2, CB1)



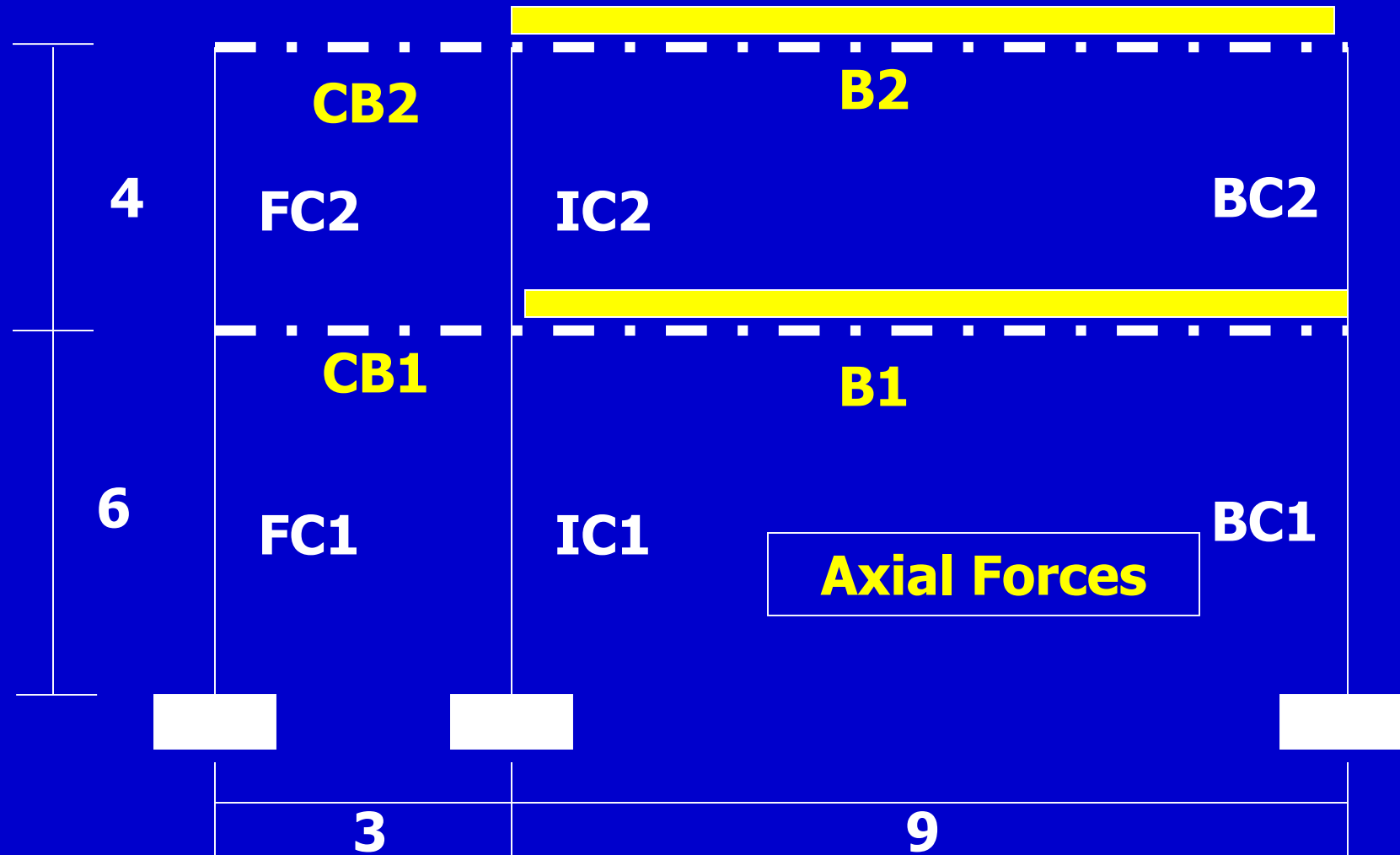
Critical Live Load Patterns (FC)



Critical Live Load Patterns (IC)



Critical Live Load Patterns (BC)



IMPORTANT

Beams should have continuous top and bottom steels bars as there may be negative moment at mid span at times and positive moment at Supports.