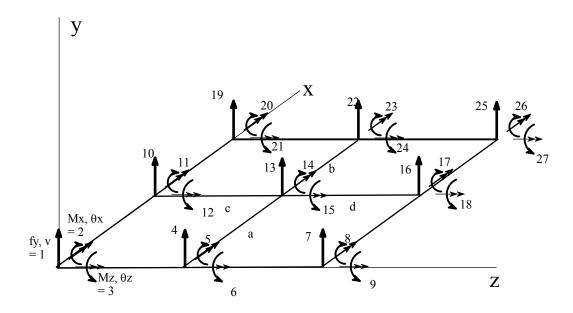
Grillage Overview/Introduction

degrees of freedom:

flex only beam

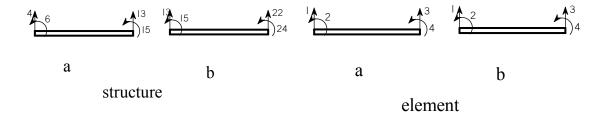


we will divert to smartsketch to develop the structure for application of matrix analysis

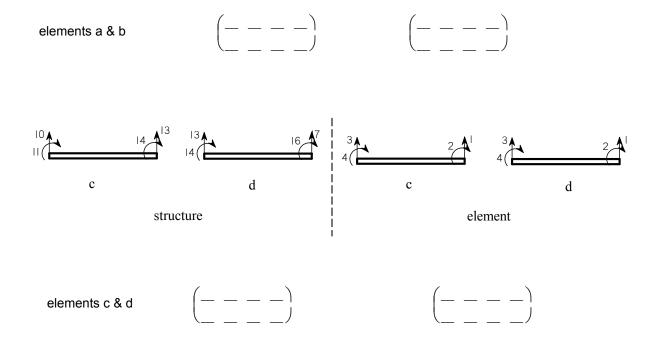


looking at elements a and b (in x direction) and c and d (in z direction)

using results from smartsketch



initial topology matrix for a and b would be:



the remainder of the analysis follows matrix analysis.

let's do example

convert distributed load to equivalent static

