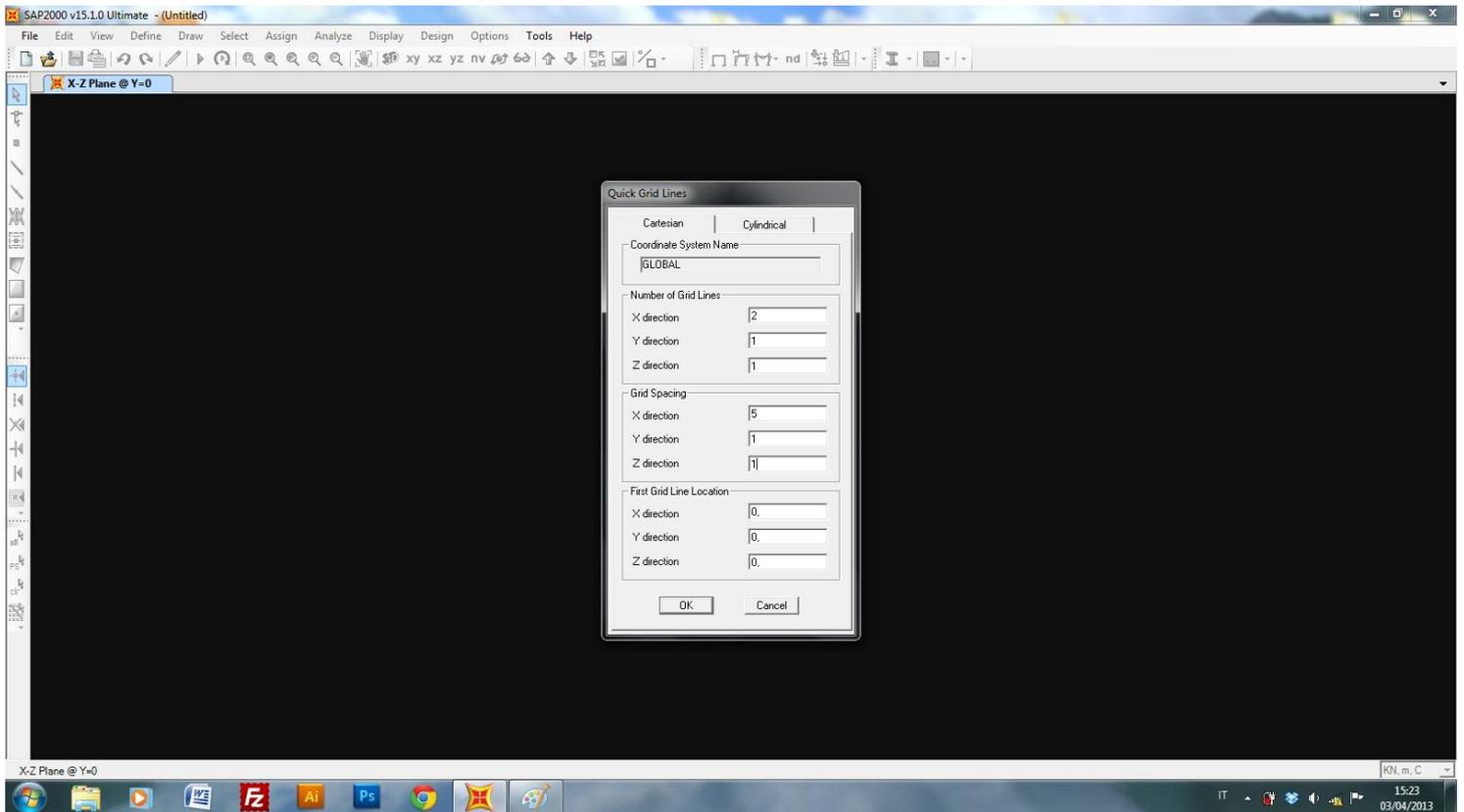
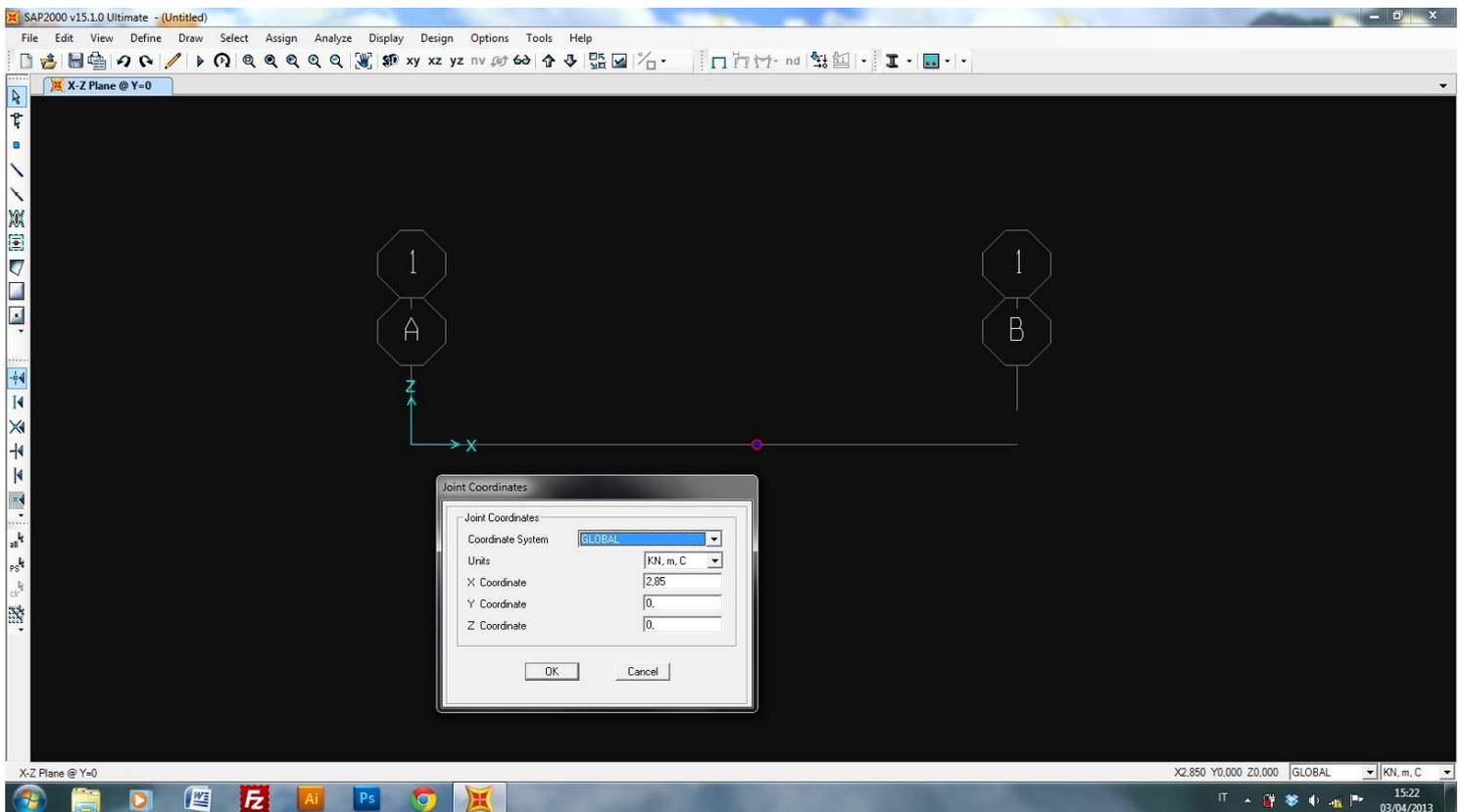


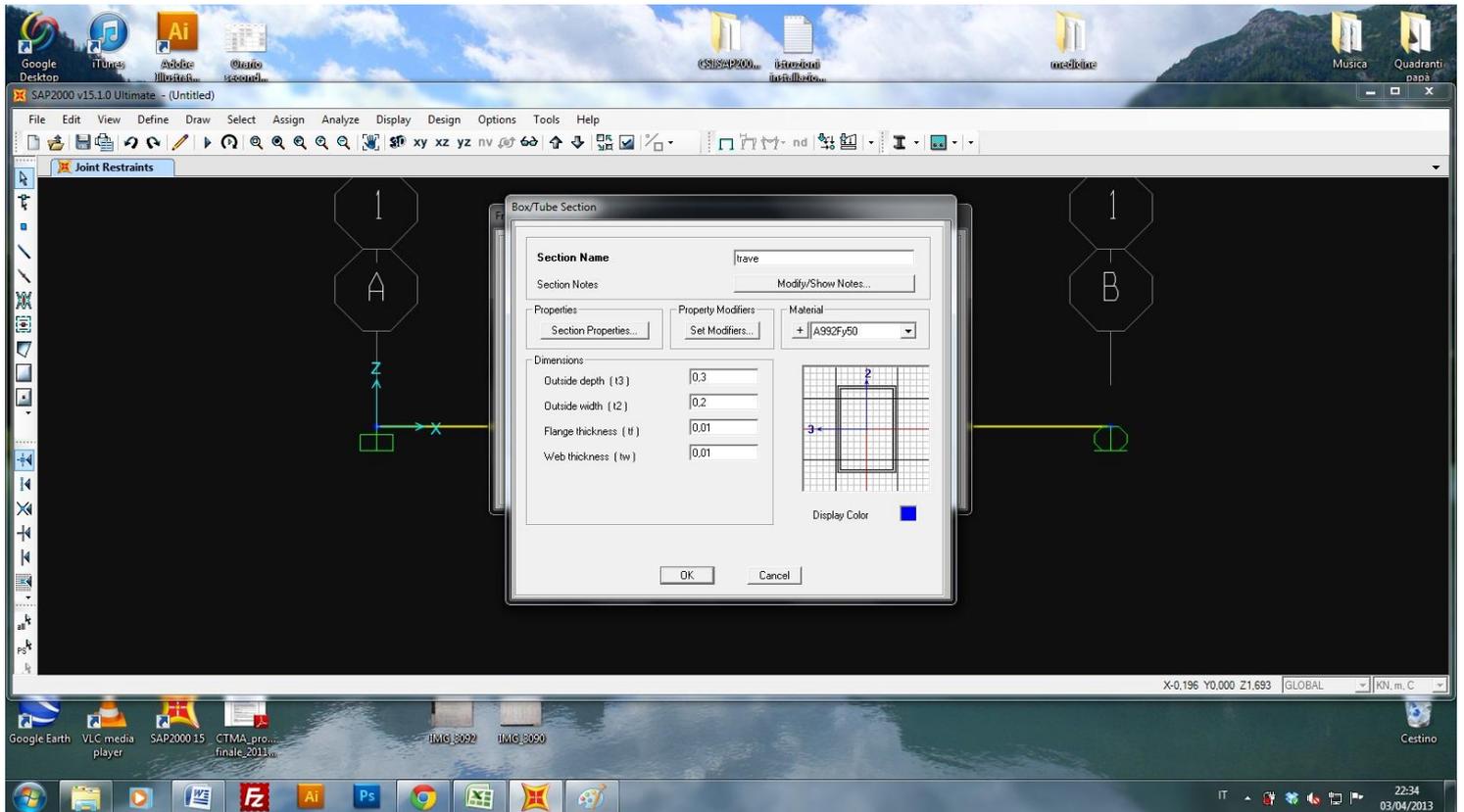
Creo una griglia con i seguenti valori



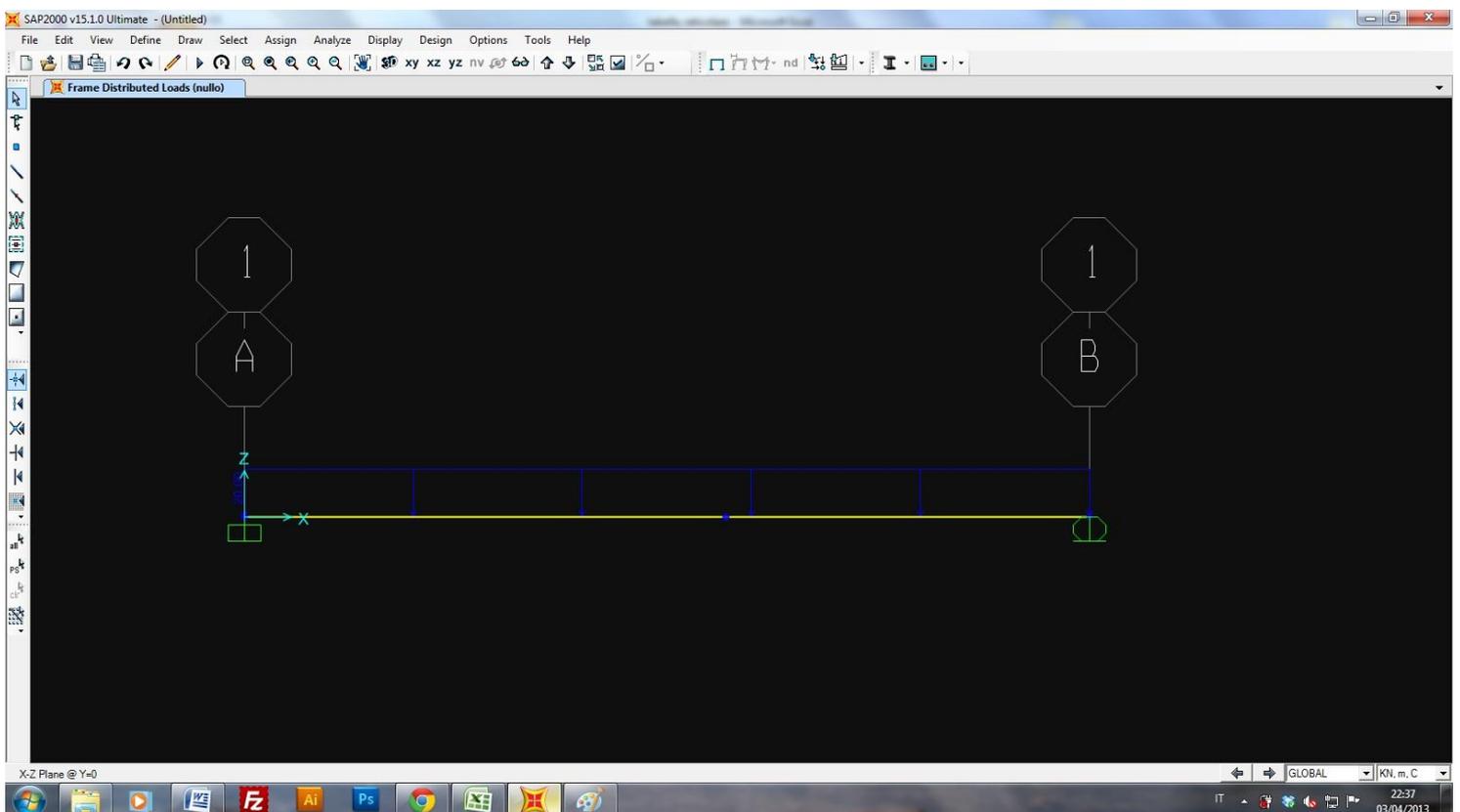
Disegno un punto e lo posiziono a 0,571 (posizione in cui dovrebbe trovarsi la  $V_{max}$ , in base ai calcoli effettuati a mano). Ponendo una trave di 5 m il punto si trova a 2,85 m. In seguito disegno la trave e assegno i vincoli.



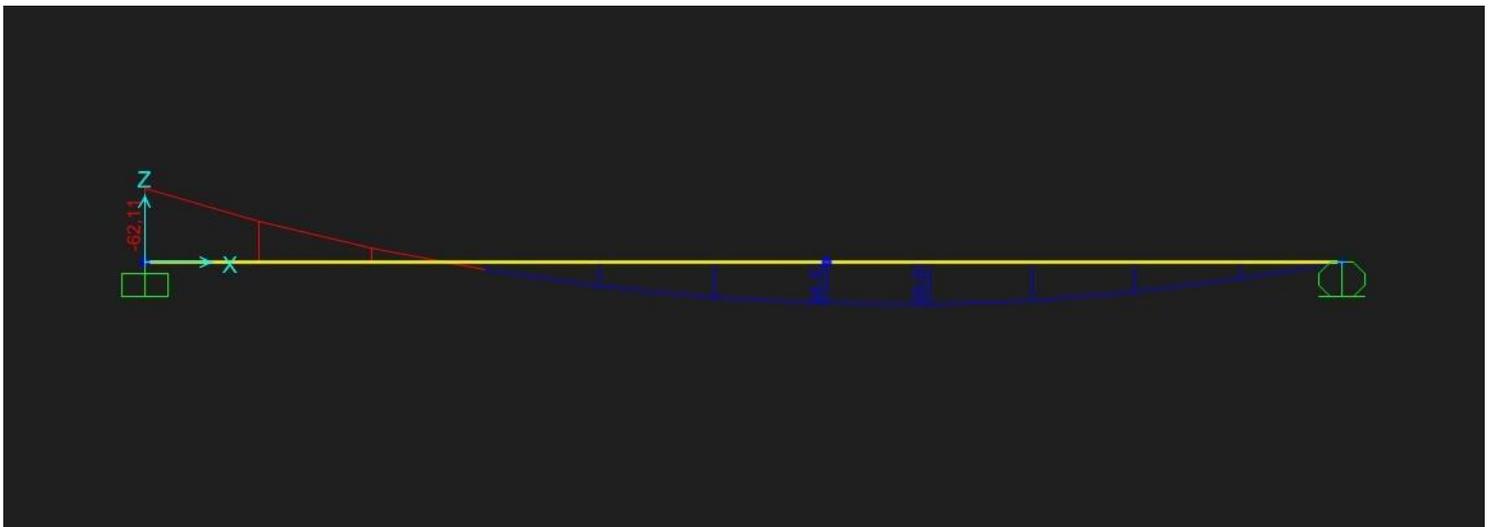
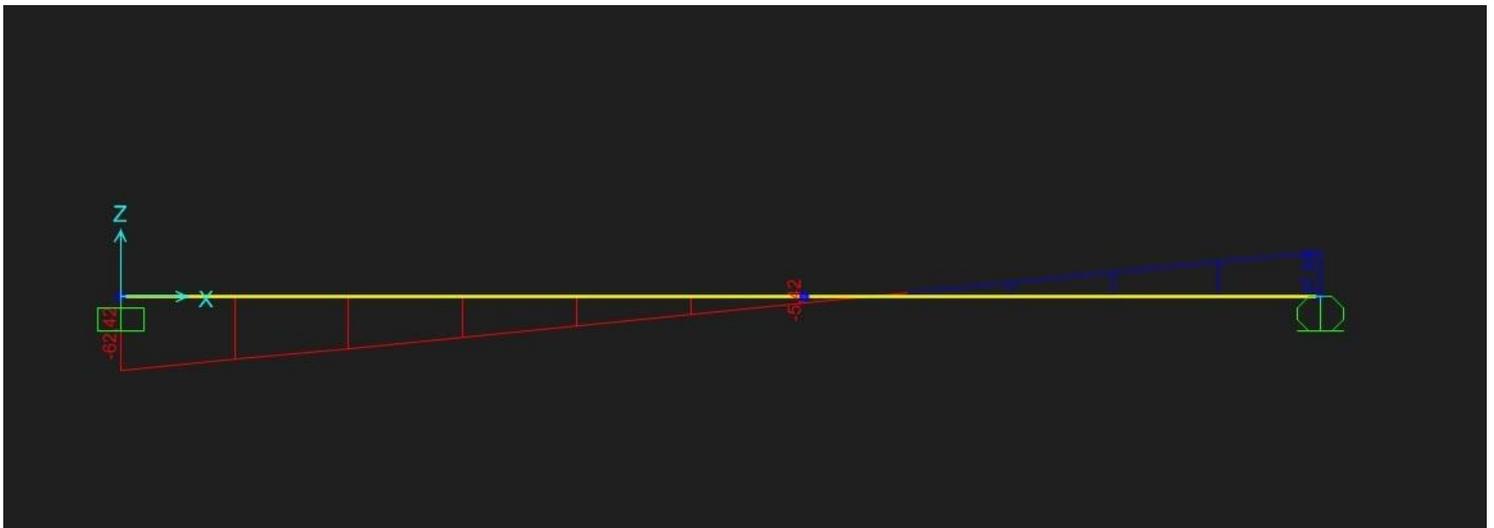
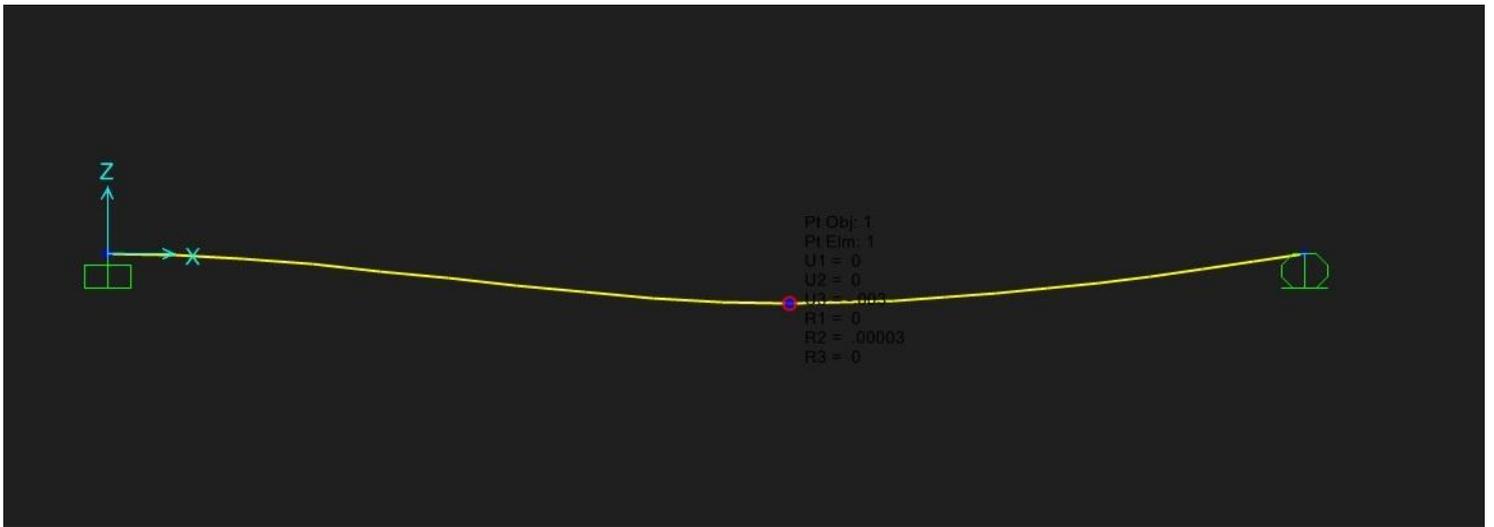
Dopo aver assegnato un carico “nullo” alla struttura, per ottenere solo il calcolo di carichi e forze esterne, definisco la sezione in acciaio. H=30 cm B=20 cm spessore=1 mm.



Assegno un carico distribuito pari a 20 Kn/m



Lancio l'analisi della struttura e visualizzo la deformatata e i diagrammi di taglio e momento.



Assegnato un numero ai nodi ((set display options > Joints > spunto "labels") guardo le tabelle per conoscere lo spostamento verticale in ogni nodo. (display > show tables > selezione "analysis results" > joint displacement)

The screenshot shows the SAP2000 v15.1.0 Ultimate interface. A 'Joint Displacements' dialog box is open, displaying a table of results for three joints. The table columns are: Joint Text, Output Case Text, Case Type Text, U1 m, U2 m, U3 m, R1 Radians, R2 Radians, and R3 Radians. The data for the three joints is as follows:

Joint Text	Output Case Text	Case Type Text	U1 m	U2 m	U3 m	R1 Radians	R2 Radians	R3 Radians
1	nullo	LinStatic	0	0	-0.00296	0	0.000028	0
2	nullo	LinStatic	0	0	0	0	0	0
3	nullo	LinStatic	0	0	0	0	-0.002198	0

The dialog box also shows 'Units: As Noted' and 'Record: 1 of 3'. The background shows a 3D model of a beam with nodes 1, 2, and 3 labeled. Node 1 is at the left end, node 2 is at the midpoint, and node 3 is at the right end. The beam is supported by a fixed support at node 1 and a roller support at node 3. The beam is subjected to a uniformly distributed load. The software interface includes a menu bar (File, Edit, View, Define, Draw, Select, Assign, Analyze, Display, Design, Options, Tools, Help) and a toolbar with various icons for file operations, viewing, and analysis. The Windows taskbar at the bottom shows the system tray with the date 03/04/2013 and time 22:42.