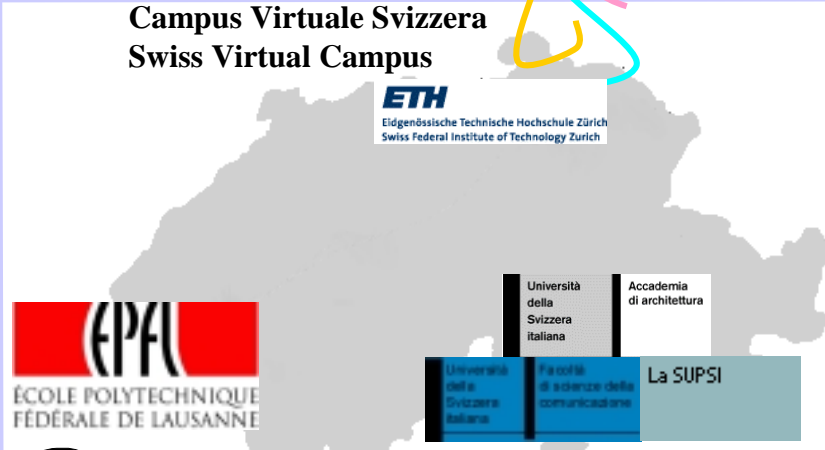


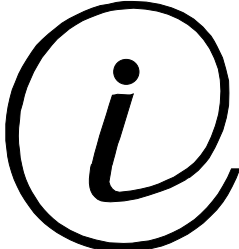

**Virtueller Campus Schweiz**  
**Campus Virtuel Suisse**  
**Campus Virtuale Svizzera**  
**Swiss Virtual Campus**



 *-Structures*




*novation*  
*nteraction*  
*nvention*  
*ntuition*



# Strutture



Un'introduzione al funzionamento delle strutture portanti in architettura

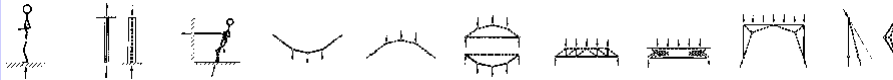
Accademia di architettura

Strutture

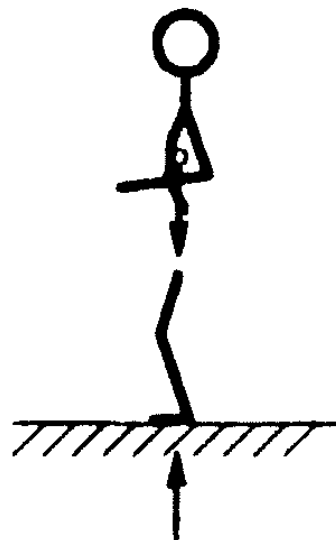
Prof. Dr. Invernizzi/Manfredi

Aut. Prof. Dr. Giorgio  
Aut. Stefano Invernizzi

Anno accademico  
1977-1978

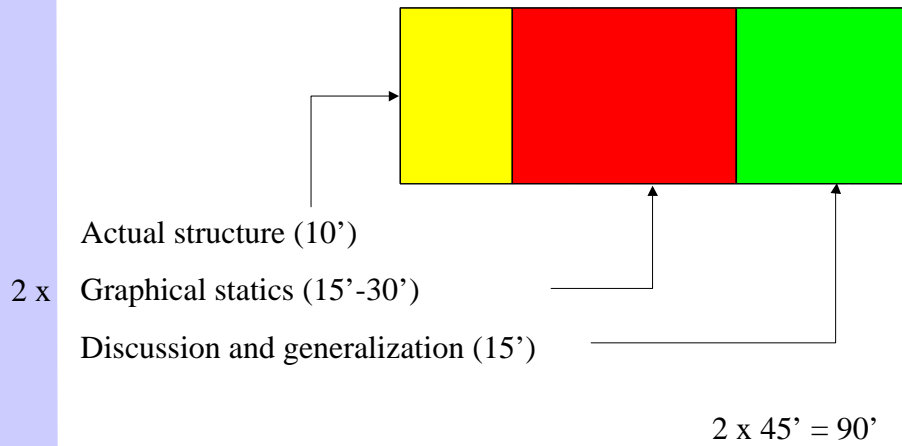


## Walk Through Structural Types

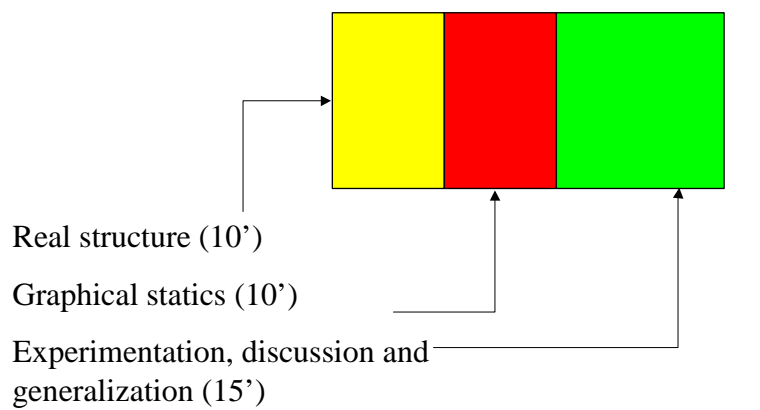




## Typical lesson plan



## $\mu$ -lesson plan





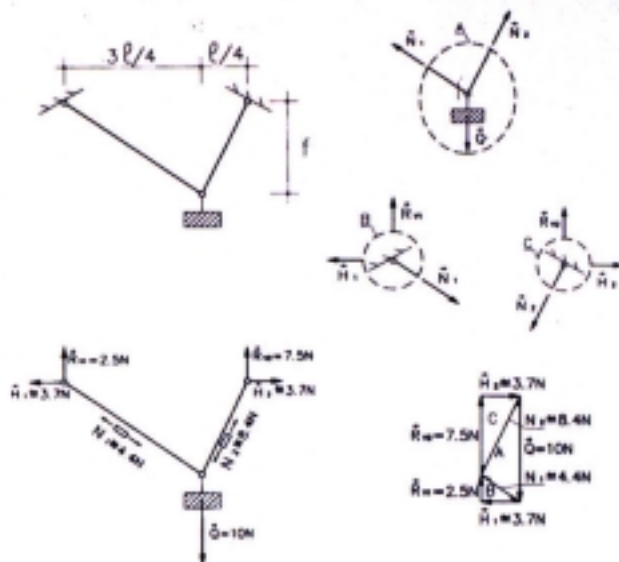
# Graphical Statics

Il centro della fune  
è invariato rispetto al  
sistema simmetrico

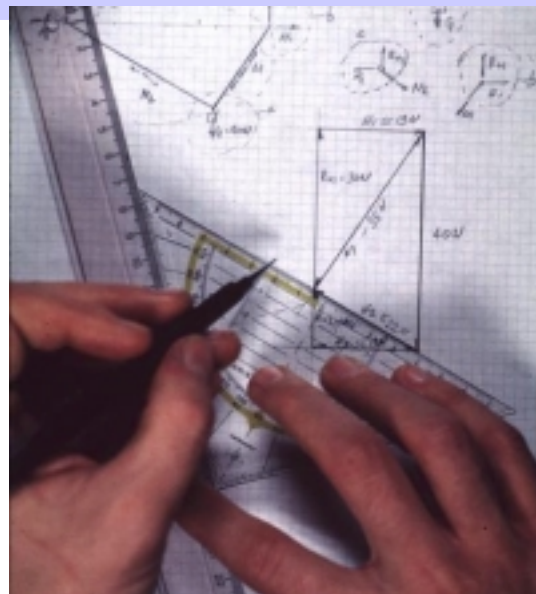
Le azioni delle funi che

agiscono in senso opposto.  
La componente  
normale del carico, mentre  
il peso è uguale.

Il peso di fune che collega  
i due tratti è uguale all'altro tratto è

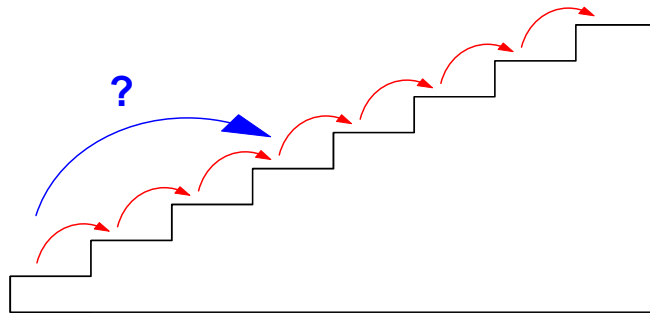


# Graphical Statics

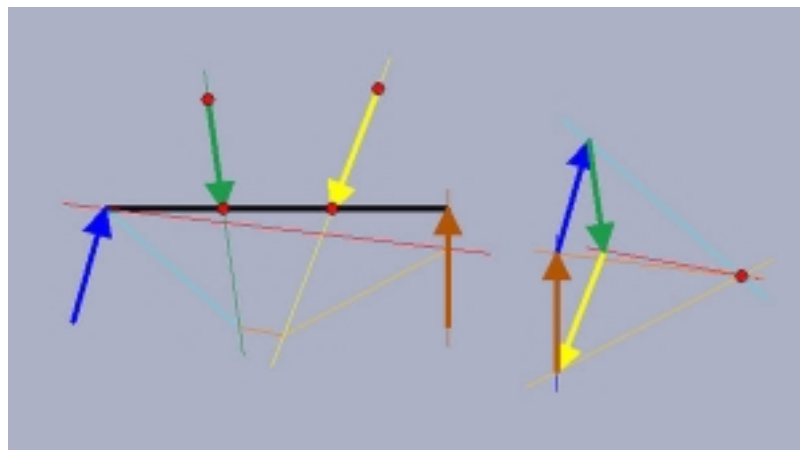




Every step, every time...



Funicular Polygon





<http://i-structures.epfl.ch/>

