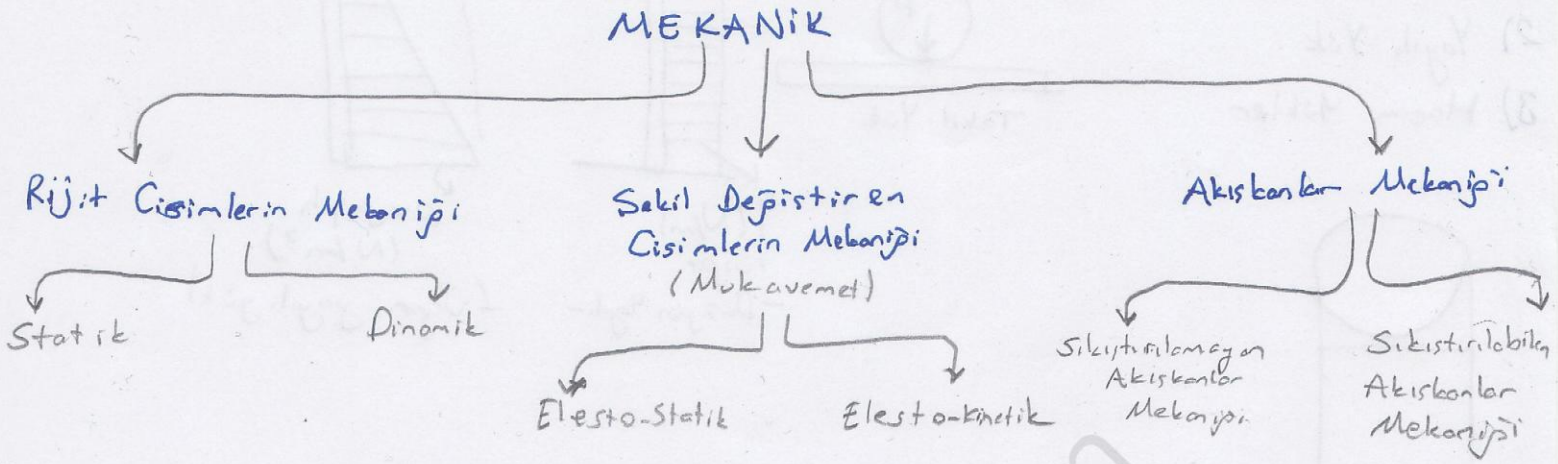
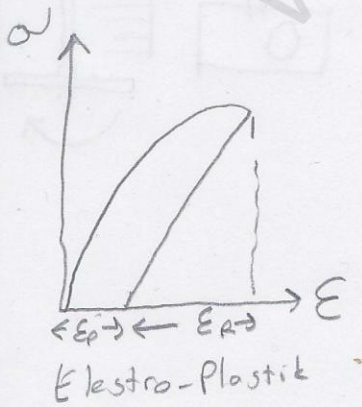
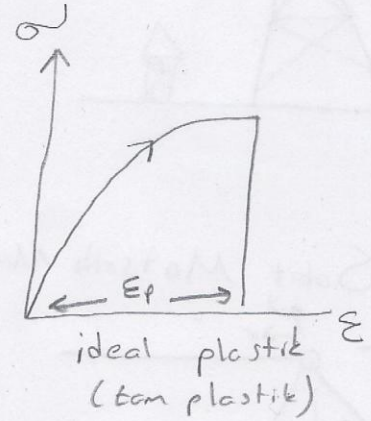
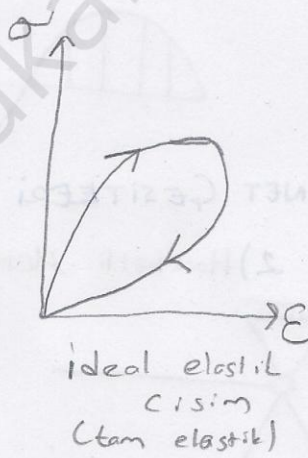
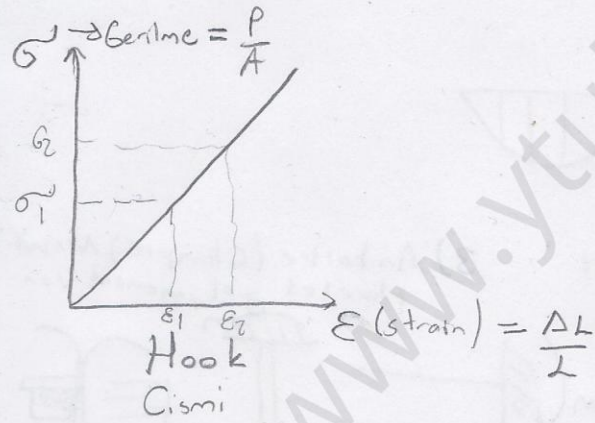




Tasarımda Dikkat Edilecek Konular

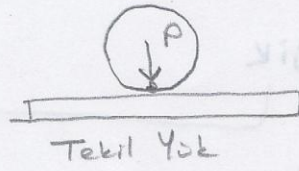
- Emniyet Şartı
- Ekonomiklik Şartı
- Estetiklik

İDEAL MALZEMELER



Kuvvet Çesitleri

- 1) Tekil Yük (Kuvvet)
- 2) Yayılı Yük
- 3) Haccim Yükler



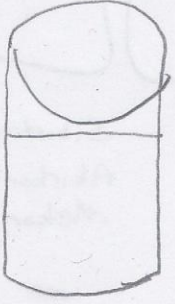
Tekil Yük

$q \text{ (N/m)}$
rüzgar

- Düzgün Yayılı -

$$p = \rho \cdot q \cdot h \text{ (N/m}^2\text{)}$$

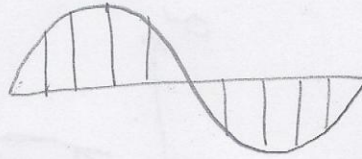
- Üçgen yayılı yük -



2.4 Parabolik Yük

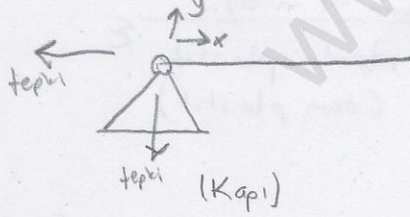


2.5 Düzgün Yayılı Yük Çesitleri

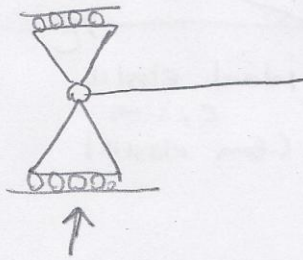


MESNET ÇESİTLERİ

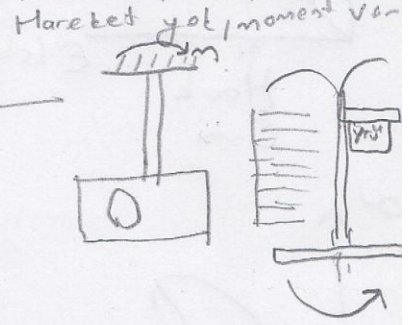
1) Sabit Mutsallı Mesnet



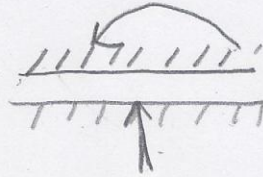
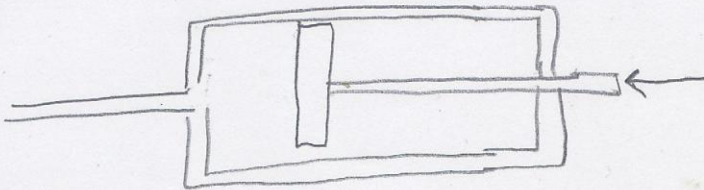
2) Hareketli Mesnet



3) Ankastre (Clamped) Mesnet



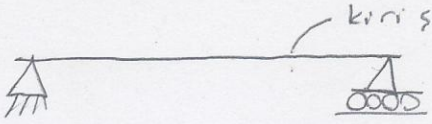
4) Kayıcı Ankastre Mesnet



Statikçe Belirli Sistemler (Statically determined systems)

Kiris Çesitleri (Kinds of beam)

1)



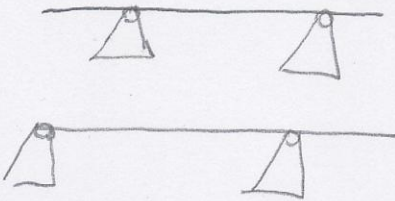
Basit mesnetli kiris
(simple supported beam)

2)



Konsol kiris (projektor)
bir ucu ankastre (clamped)
diğer ucu serbest

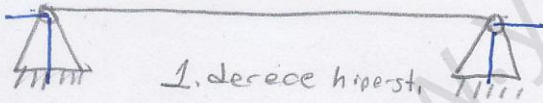
3)



Göknehl Mesnetli kiris

$$\begin{aligned} \rightarrow \sum f_x &= 0 \\ \uparrow \sum f_y &= 0 \\ \downarrow \sum M &= 0 \end{aligned}$$

Statikçe Belirli Olmayan (Hiperstatik) Sistemler (Statically indetermined systems)

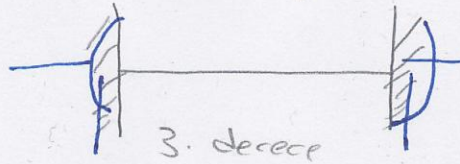


1. derece hiper-st.

Biliamegen sayisi 4

D.D.S = 3 (Değer)

Hiperstatik Derecesi = BS - DDS
= 4 - 3 = 1

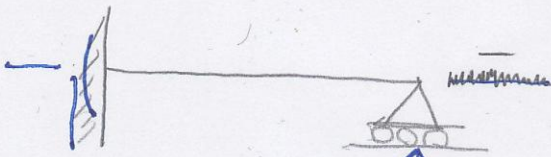


3. derece

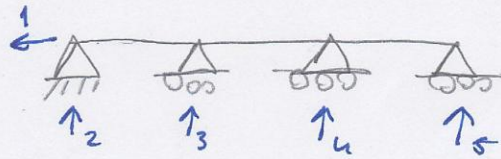
BS = 6

D.D.S = 3

H.D = 6 - 3 = 3



H.D = 4 - 3 = 1



BS = 5

DDS = 3

H.D = 5 - 3 = 2