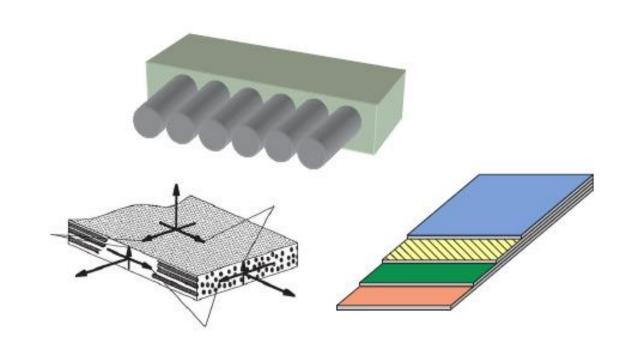


- Yükleme Durumları
- Fiber Türü
- Yerleşim Düzeni
- Matris Türü
- Karışımlar Kuralı
- Gerilim Hesabı

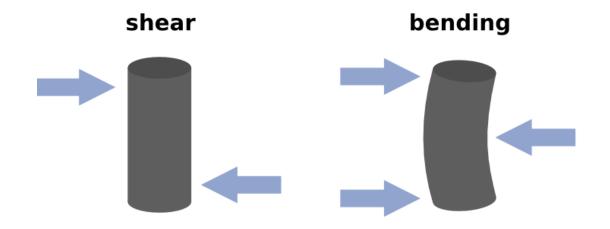




Yükleme Durumları

- Çekme
- Basma
- Eğme
- Kesme

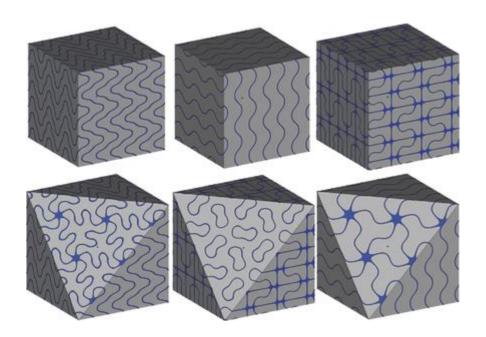






Fiber Yerleşim Düzeni

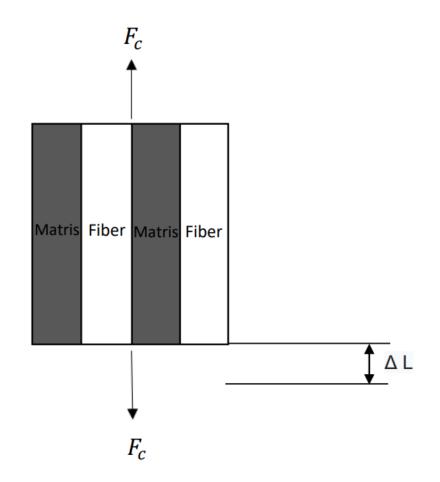
- Fiber Türü
- Fiber Oryantasyonu
- Fiber Yoğunluğu





Karışımlar Kuralı - I

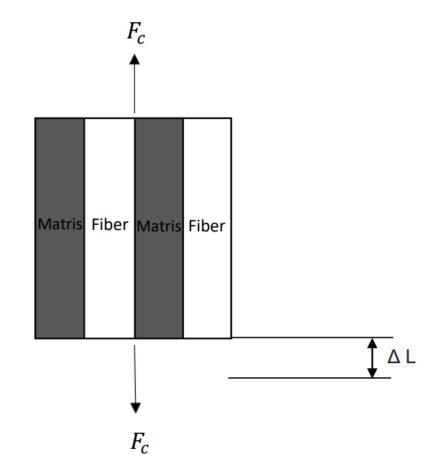
- Dayanım
- Poisson Oranı
- Isıl İletim
- Kuvvet Dengesi
- Hooke Kanunu
- Geometrik Deformasyon





Karışımlar Kuralı - II

- Fc = Ff + Fm(1)
- $\sigma c * Ac = \sigma f * Af + \sigma m * Am \dots (2)$
- $\varepsilon c = \varepsilon f = \varepsilon m$ (3)
- $\sigma c = E c * \varepsilon c$ (4)
- $\sigma f = Ef * \epsilon f$ (5)
- $\sigma m = Em * \epsilon m$ (6)
- $Ec * \epsilon c * Ac = Ef * \epsilon f * Af + Em * \epsilon m * Am(7)$
- Ec = Ef(Af/Ac) + Em(Am/Ac)(8)
- (Af/Ac) = (Af/Ac) * L/L = (vf/vc) = Vf(9)
- Ec = EfVf + EmVm(10)





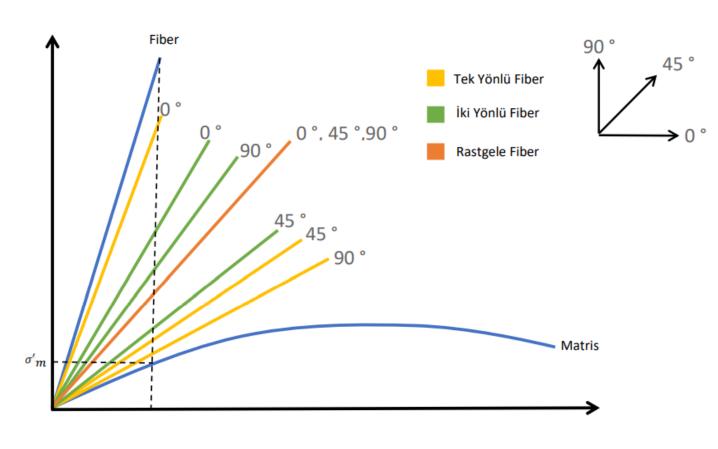
Gerilim Hesabı

•
$$Fc = Ff + Fm$$

•
$$\sigma c * Ac = \sigma f * Af + \sigma m * Am$$

•
$$\sigma c = \sigma f * (Af/Ac) + \sigma m * (Am/Ac)$$

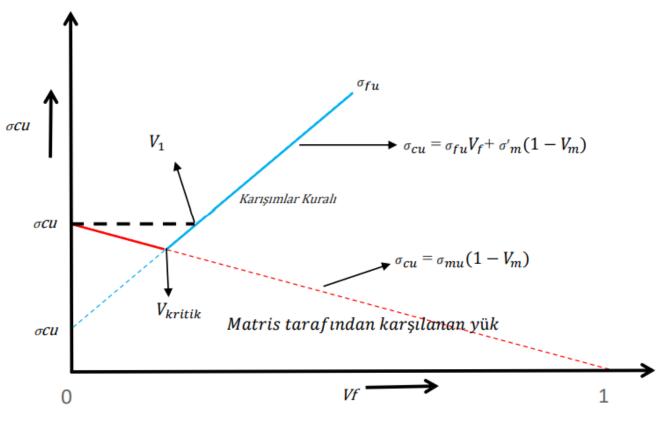
•
$$\sigma c = \sigma f V f + \sigma m V m$$



Şekil 7.2. Gerilim-Gerinim Eğrileri



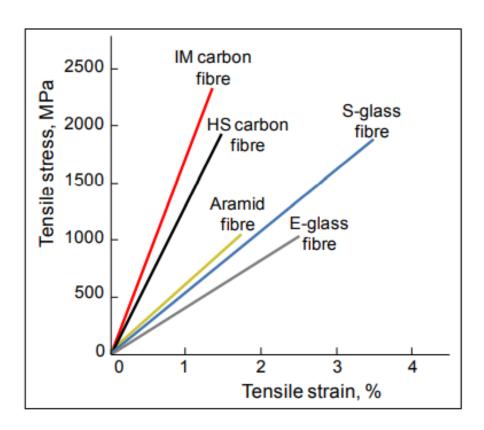
Gerilim Hesabı



Şekil 7.3. V_{kritik} Tespiti

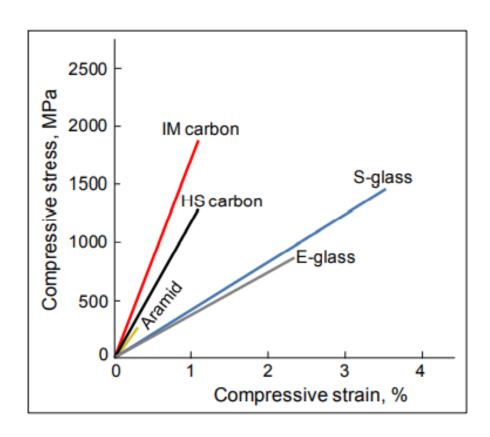


Çekme Dayanımı





Basma Dayanımı



İletişim



- Github: https://github.com/grboguz
- Udemy: https://www.udemy.com/user/oguzhan-gurbuz/
- Linkedin: https://tr.linkedin.com/in/o%C4%9Fuzhan-g%C3%BCrb%C3%BCz-4780481a6
- Discord: https://discord.gg/E2bgRskNwK
- Youtube: https://www.youtube.com/channel/UCDZkYllZMT5EWwLr1wCHFSA