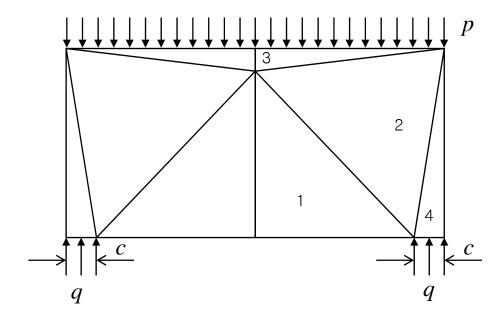
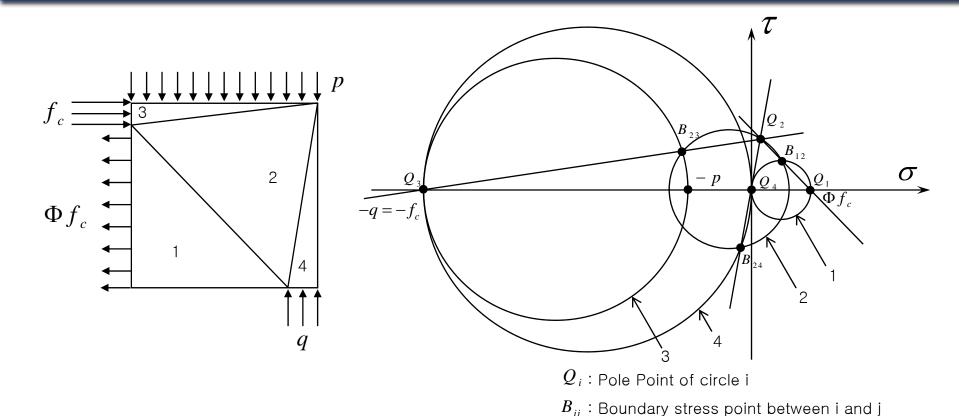
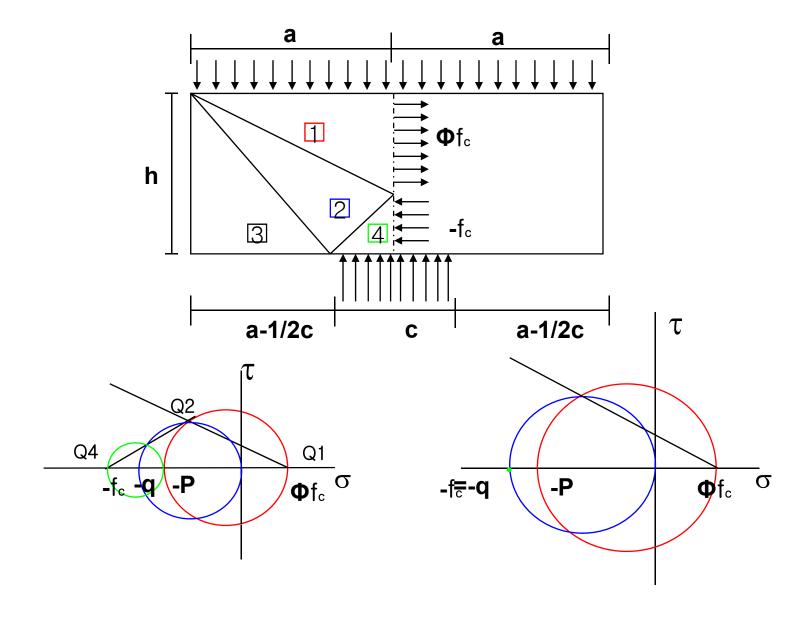
Object : Find a safe solution through the stress field approach

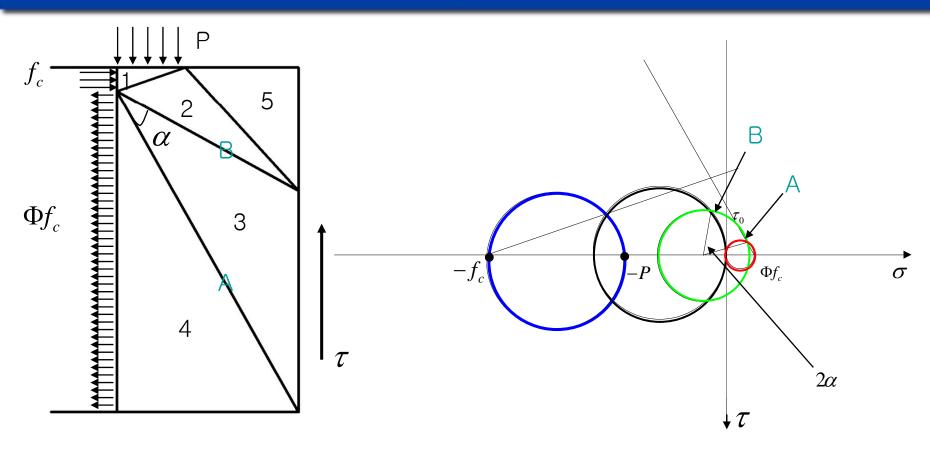
Conditions: isotropic and homogeneous reinforcement





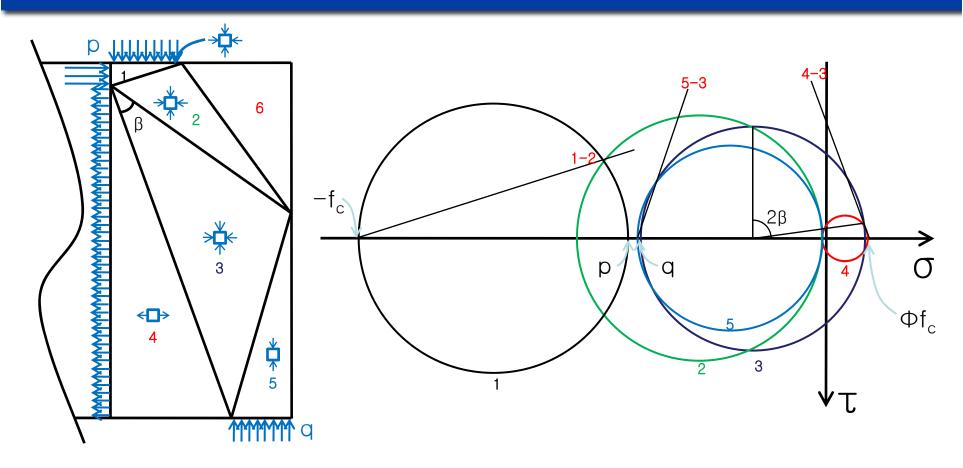
- 1. To maximize p, assume q = fc and construct the admissible stress field
- 2. Draw circle4 and circle1, and find B24 and B12 with parallel lines
- 3. Draw circle2 and find B23
- 4. Draw circle3 and find a safe solution, p
- 5. If there is no admissible stress field, assume the reduced q or control the reinforcement ratio (the depth of compression zone)





1 2 3 4

 P_{max} 를 만들기 위해서 1번 원의 크기가 작아지고, au_0 값이 커져야 한다. o3번 원이 커지고o2번 원이 커지면o P_{max}



Maximum P 값을 가지기 위해서는..

- 5번 원이 더 커져야 한다. (q값이 더 커져야 한다)
 - → 3번 원이 커진다 → 2번 원이 커진다 → 1번 원이 작아지게 된다
 - → p 값이 커지게 된다