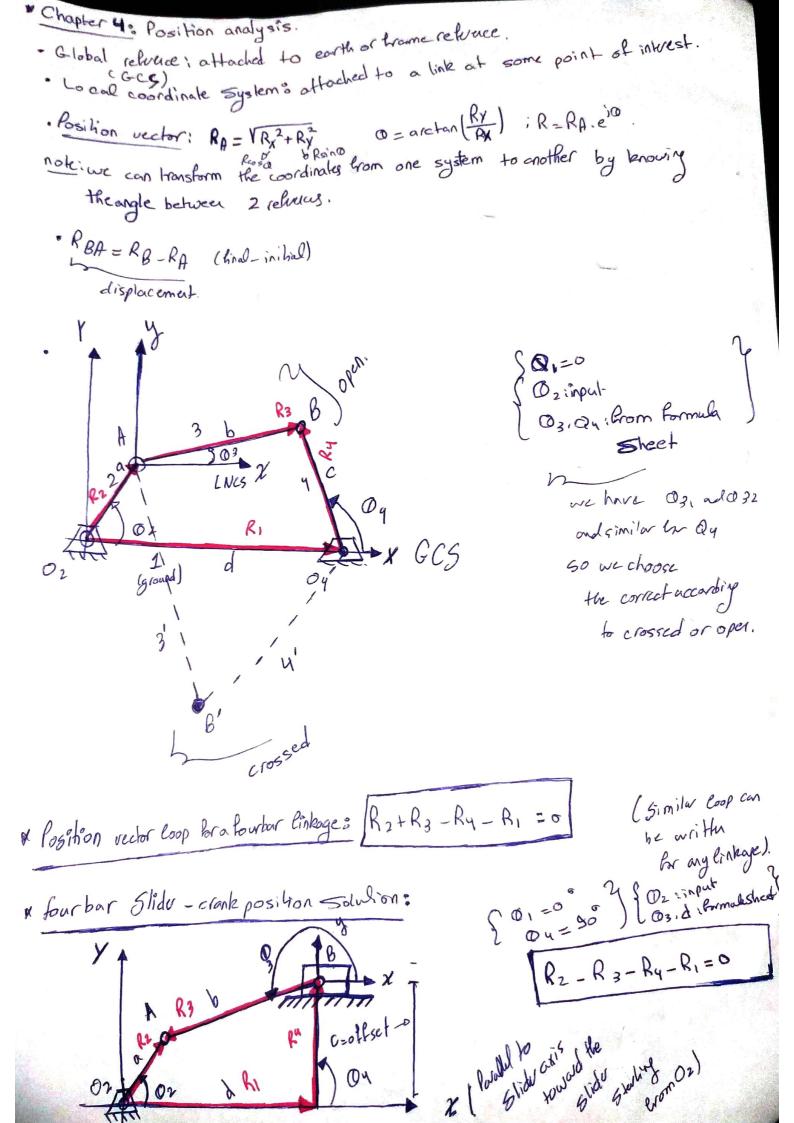
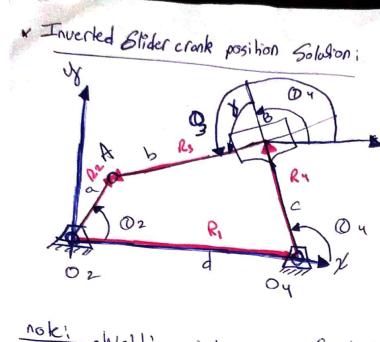
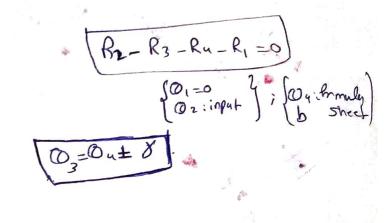


. Simplest LDOF linkage is four bar linkage.

rLinkage transformation:
, I I was Make 1010
with at least 2 reconse in DOF.
2. fall joint replaced by halfjoint - indices DOF by 1
3. Removal of a Linh - reduce Dof by 1
4. 2+3 - no change in DOF.
3. Shrinking alink to above sider-combining for a period while input continues in
in the children in the childre
Invelions growling a different come in a fourther state of a fourther of a fourther of a fourther we Grashef condition: relation that predicts the rotation behavior of a fourther linkage's inversion based on Link legths.  Linkage's inversion based on Link legths.
linhage's invusion based on Limited
S= L. of Shortest - 4 PAQ
L=L. " (og Links = Linkspe is Grashof.
a = " " means that at least a making a
full revolution with ground plane.







nok! Watt's sixbar = 2 fourbar inseries.

• 5 kphenson's sixbar = 2 fourbar in parallel.

Kenothis we can find position of any pt. by relating it to angles calculable and system found.

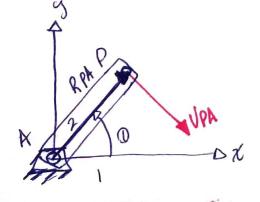
\* Transmition angles: agele blu couple link enel output link

Otras = 103-04/ (Should be always acuke and so)

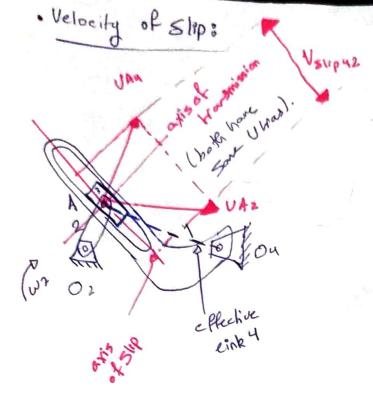
\* Chapter: 6 - Velocity analysis:

· linear velocity :  $V = \frac{d\vec{R}}{dt}$  m/s.

· argular velocity:  $\omega = \frac{d0}{d+}$  rad is. (CCW -stre; CW -s-ve)



· VP= VA + VPA



. Avis of slip: tayout to slider motion and along it. case onit). . Harginssion aris Laxis of slip and pass twough Slide joint Conly line which we can transmit motion on ; except histon).

- · angle of V afk colculation Should be verified in wich quadrant.
- . In slide crank: UB = & (Slide velocity of Slip).
- · Remarki we can find velocity of any pt. by clary it to pts. with known velocities (f,B,-).

## \* Chapte 78 Acceleration Analysis?

$$A = \frac{dU}{dt}; \quad \alpha = \frac{d\omega}{dt}$$

$$A \rho = A_A + A \rho A.$$

$$3 = \frac{dA}{d+}$$
;  $3 = \frac{dA}{d+}$