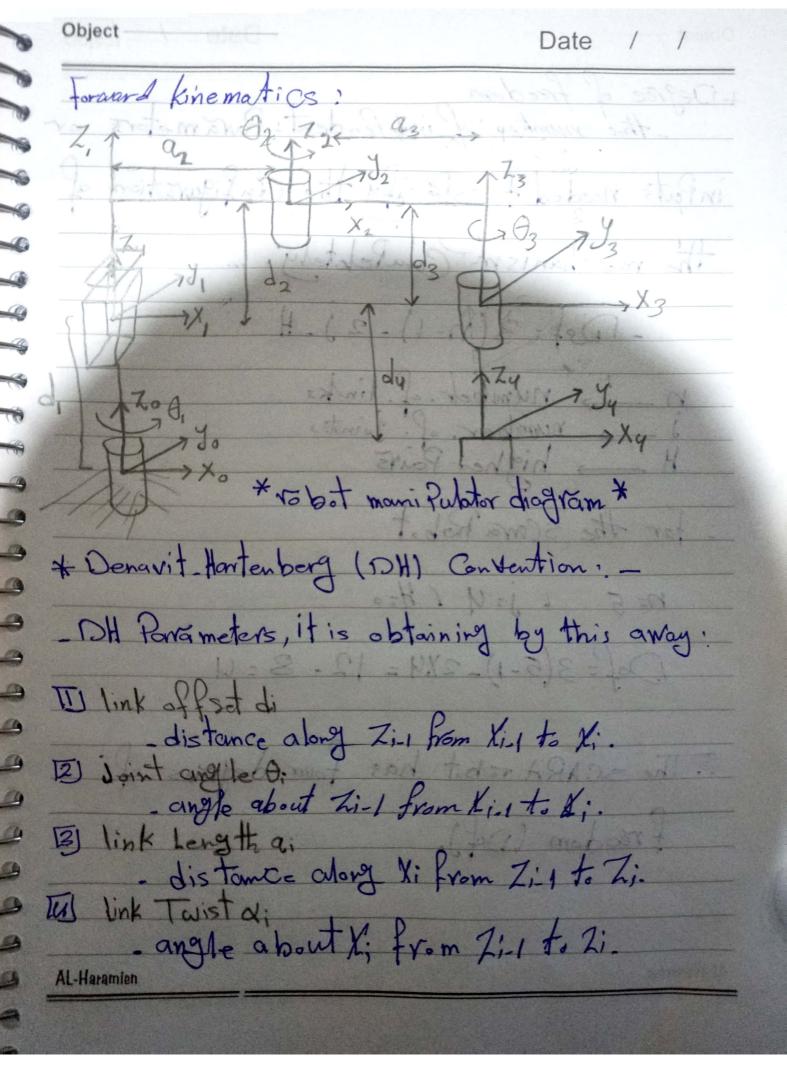
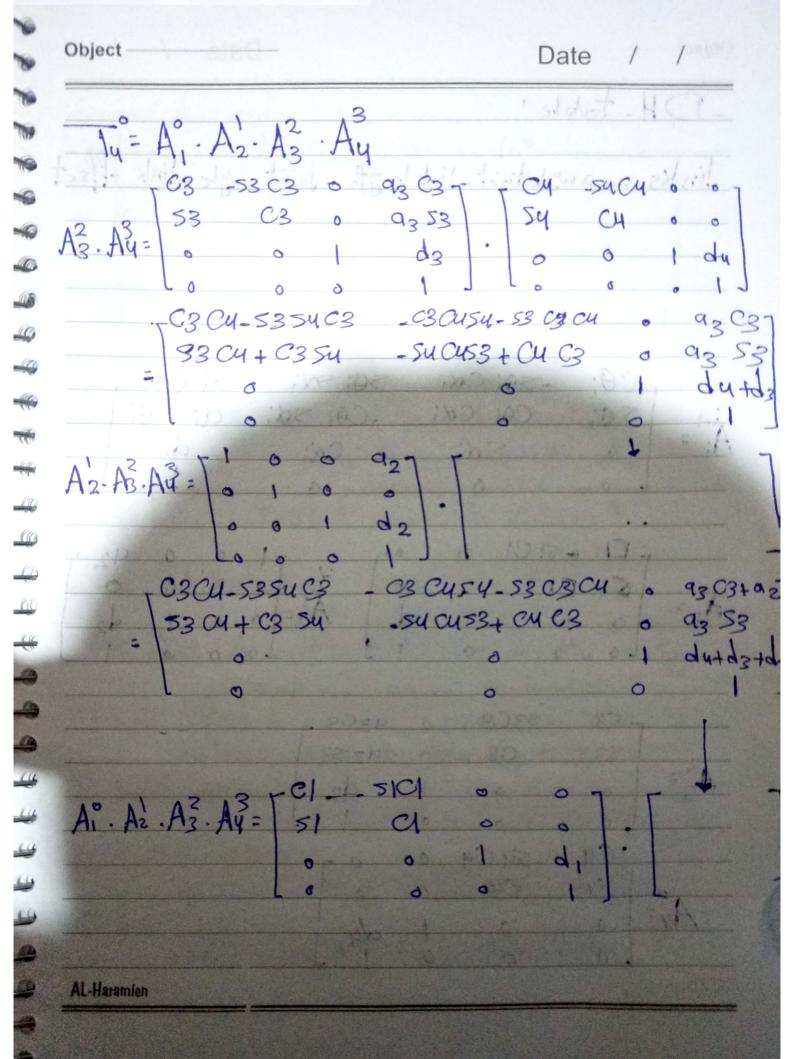
Object Date + Degree of freedom

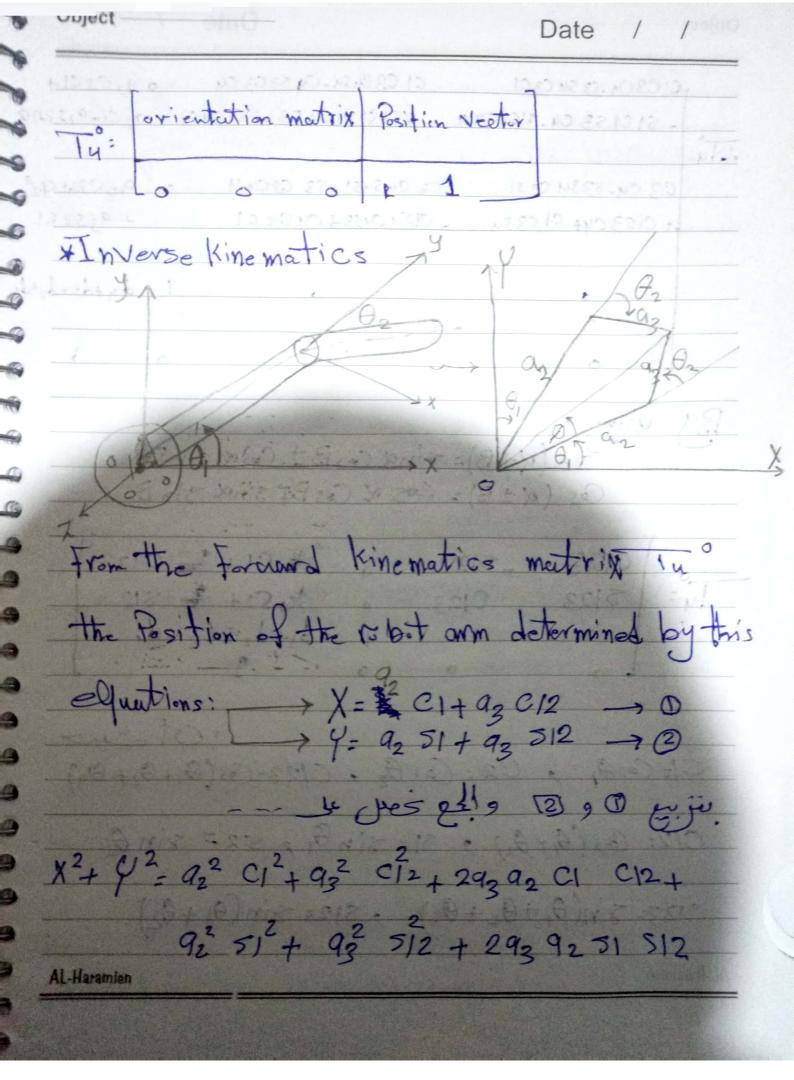
the number of indefendent Pavameters in Puts needed to specify the Configuration of the mechanism ComPektely. D.f. 3(n-1)-2)-H higher Pairs for the Scara Rob. The SCARA Tobat has four degrees freedom (Dof) AL-Haramien



DH- touble! links - angletwit-link length - Joint angle link offset -50; Ca; Cai Cxi -Cai sxi Sdi 0 AL-Haramien



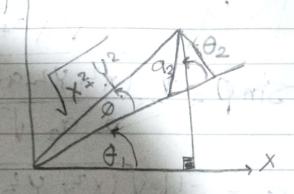
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$$\therefore C2 = \frac{\chi^2 + \gamma^2 - \alpha_2^2 - \alpha_3^2}{2\alpha_2 \alpha_3}$$

$$tan(\theta_{1}+ \beta) = \frac{\gamma}{x}$$

$$\theta_{1}+ \beta = tan'(\frac{\gamma}{x})$$



$$\frac{1}{\sqrt{x^{2}+y^{2}}} = \frac{\alpha_{2} \sin \theta_{2}}{\sqrt{x^{2}+y^{2}}}$$

AL-Haramien

Object Date / / 52=1Coso2-1 Gso2- X7 1-92-932 29293 Sin Ø= AL-Haramien

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