



Theoretical Mechanics, Quiz 4: PLANE2

Plane motion: complex mechanism

Diagram of a mechanism with two cranks of equal length and a connecting rod. The cranks are pivoted at O_1 and O_2 , and the connecting rod connects points A and B . The mechanism is shown in a specific configuration with dimensions a , b , c , d and angles ϕ and ψ .

Given conditions:

$$O_1F = \frac{1}{2}CD$$

$$AC = BC$$

Quiz 4, Task 1